

# Hellenic Accreditation System



Annex F1/6 to the Certificate No.1112-3

## SCOPE of ACCREDITATION

of the

**Testing Laboratories**

of

**ArC LABORATORIES**

Analytical and Research Chemical Laboratories

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
Chemical Testing		
1. Water for human consumption	1. Determination of pH	Internal method code: O12-10 Modified method based to ISO 10523:2008
	2. Determination of Conductivity	Internal method code: O12-17 Modified method based to APHA_2510B*
	3. Determination of Total and Composite Alkalinity	ISO 9963-1:1994
	4. Determination of Ammonium (NH <sub>4</sub> <sup>+</sup> )	Internal method code: O12-13 Modified method based to ISO 7150-1:1984
	5. Determination of: Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Barium (Ba), Cobalt (Co), Chromium (Cr).	Internal method code: O12-16 Modified method based to ISO 11885:2007 (ICP-OES)
	6. Determination of Fluoride (F <sup>-</sup> ), Chloride (Cl <sup>-</sup> ), Nitrate (NO <sub>3</sub> <sup>-</sup> ), Nitrite (NO <sub>2</sub> <sup>-</sup> ), Sulfate (SO <sub>4</sub> <sup>2-</sup> ), Phosphate (PO <sub>4</sub> <sup>3-</sup> )	U.S.EPA 300.1:1999

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
2. Wastewater	1. Determination of pH	Internal method code: O12-10 Modified method based to ISO 10523:2008
	2. Determination of Conductivity	Internal method code: O12-17 Modified method based to APHA_2510B*
	3. Determination of: Aluminum (Al), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Manganese (Mn), Nickel (Ni), Lead (Pb), Zinc (Zn), Phosphorus (P)	Internal method code: O12-24 Modified method based to ISO 11885:2007 (ICP-OES)
	4. Determination of Hexavalent Chromium (Cr <sup>6+</sup> )	ISO 11083:1994
<b>Microbiological testing</b>		
1. Water for human consumption	1. Detection and enumeration of total coliforms and E. coli	ISO 9308-1:2014/Amd.1:2016
	2. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	3. Enumeration of culturable micro- organisms at 22±2 °C and 36±2 °C	ISO 6222:1999
	4. Enumeration of Pseudomonas aeruginosa	ISO 16266:2006
2. Water with a low concentration of interfering microorganisms (ISO 11731:2017, § 8.4.3)	1. Enumeration of Legionella spp.	ISO 11731:2017, § 8.2.2., (Annex J, Procedure 5,7 Medium A & C – GVPC)
3. *** Solid food (Meat (not ground), cheese, pastry, etc.	1. Enumeration of β-glucuronidase-positive Escherichia coli	ISO 16649-2:2001
	2. Enumeration of coagulase – positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021
	3. Detection of nontyphi, non paratyphi Salmonella spp.	ISO 6579-1:2017/Amd.1:2020

\* American Public Health Association, American Water Works Association, Water Environment Federation, “Standard Methods for the Examination of Water and Wastewater”, 23rd Edition, 2017

\*\* Category B.3 ESYD G-Metals

\*\*\* Category 4 Appendix A ESYD G-MICROBIOL

Site of assessment: **Laboratory permanent premises, Orchomenou 14, Peristeri 12132, Athens, Greece**  
Approved signatories: **Leonidas Lellos.**

This scope of Accreditation replaces the previous one dated 15.08.2022.  
The Accreditation Certificate No. **1112-3**, to ELOT EN ISO/IEC 17025:2017, is valid until 15.02.2027.

Athens, 22.12.2022

Christos Nestoras  
*CEO of ESYD*