Hellenic Accreditation System

Annex F1/7 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_4^+)	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^-), Chloride (Cl^-), Nitrate (NO_3^-), Nitrite (NO_2^-), Sulfate (SO_4^{2-}), Phosphate (PO_4^{3-})	U.S.EPA 300.1:1999
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*

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
	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^{6+})	ISO 11083:1994
Microbiological testing		
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 ºC and 36±2 ºC	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 22.12.2022.
The Accreditation Certificate No. **1112**-3, to ELOT EN ISO/IEC 17025:2017, is valid until 15.02.2027.

Athens, 29.03.2024

Christos Nestoras
CEO of ESYD