Hellenic Accreditation System

Annex F1/16 to the Certificate No. **787**-4

SCOPE of ACCREDITATION

of the

Testing Laboratory

of the

Regional Public Health Laboratory of Thessaly

Materials / Products tested	Types of test / Properties measured	Applied standards / Techniques used
Microbiological Tests		
1. Potable water, surface water, swimming pool water and similar recreational water	l. Enumeration of culturable microorganisms - colony count by inoculation in a nutrient agar culture medium at 22±2 ºC and at 36±2 ºC	ISO 6222:2000
	2. Detection and enumeration of *Escherichia coli* and coliform bacteria	ISO 9308-1:2014 /Amd 1: :2017
	3. Detection and enumeration of intestinal enterococci	ISO 7899-2:2001
	4. Detection and enumeration of *Pseudomonas aeruginosa*.	ISO 16266:2006
	5. Enumeration of *Clostridium perfringens*	ISO 14189:2013
2. Sea water	1. Detection and enumeration of *Escherichia coli* and coliform bacteria	ISO 9308-1:2014 /Amd 1: :2017
	2. Detection and enumeration of intestinal enterococci	ISO 7899-2:2001
3. Food	1. Detection of *Salmonella* spp. except *S. typhi* and *S. paratyphi*	ISO 6579-1:2017

3. Food (continued)	2. Detection of *Listeria monocytogenes*	ISO 11290-1:2017
	3. Enumeration of *Listeria monocytogenes*	ISO 11290-2: 2017
	4. Enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species)	ISO 6888-1: 2021 /Amd: 2023
	5. Enumeration of presumptive *Bacillus cereus*	ISO 7932:2004
	6. Enumeration of microorganisms at 30^0C	ISO 4833-1:2013/Amd 1:2022
	7. Enumeration of *Enterobacteriaceae*	ISO 21528-2:2017
	8. Enumeration of *Coliforms*	ISO 4832:2006
	9. Enumeration of beta-glucuronidase positive *E. coli*	ISO 16649-2: 2001
4. Milk and milk products powder, dried infant formulae containing milk and dried dietary foods containing milk for special medical purposes intended for infants below six months of age	1. Detection of *Cronobacter* spp	ISO 22964:2017
5. Water for haemodialysis and related therapies	l. Enumeration of microorganisms at 17-23 ^{0}C	ISO 23500-1:2019 ISO 23500-3:2019
	2. Determination of endotoxins	General methods European pharmacopoeia 2.6.14, Method A (gel clot:limit test), Method B (gel clot:quantitative) ISO 23500-1:2019 ISO 23500-3:2019)
6. Dialysis fluid for haemodialysis and related therapies	l. Enumeration of microorganisms at 17- 23 ^{0} C	ISO 23500-5:2019
	2. Determination of endotoxins	General methods European pharmacopoeia 2.6.14, Method A (gel clot:limit test), Method B (gel clot:quantitative) ISO 23500-1:2019

		ISO 23500-3:2019
Materials/ Products tested	**Types of test/ Properties measured**	**Applied standards/ Techniques used**
7. a) Water with low background: **Matrix A**	1.Enumeration of *Legionella*	ISO 11731:2017
b) Water with high background: **Matrix B**	1. Enumeration of *Legionella*	ISO 11731:2017
c) Waters with extremely high background: **Matrix C**	1. Enumeration of *Legionella*	ISO 11731:2017
d) Environmental samples (water or water-derived from water-related matrices e.g swabs, biofilm, sediments): **Matrices B & C**	1. Enumeration of *Legionella*	ISO 11731:2017 • Annex J; Procedure 1, 2,3; Medium C: GVPC • Annex J; Procedure 4; Medium C: GVPC
e) *Legionella* spp. strains isolated from **Matrices A, B & C**	1. Identification and serotyping of the following *Legionella* spp. • *L. pneumophila* serogroup 1 • *L. pneumophila* serogroups 2-14 • *Other Legionella non-pneumophila species*	• MALDI TOF-MS (Mass Spectrometry) • Latex Agglutination, using Legionella Latex, Oxoid Diagnostic Reagents
8. Bacterial and fungal isolates	1. ldentification of bacterial and fungal species according to the library of Bruker Biotyper instrument (except *Shigella, species of Stenotrophomonas maltophilia, Enterobacter cloacae complex, Pseudomonas putida group, Pseudomonas fluorescens, Burkholderia cepacia complex, Bordetella pertussis/bronchiosepticas Achromobacter xylosoxidans/ruhlandii, Bacteoides nordii/salyersiae*)	MALDI TOE-MS mass spectrometry based on • ISO 11731:2017 • ISO 6579-1:2017/Amd 1:2020 • ISO 11290-1:2017 • ISO 22964:2017
Molecular Tests		
1.Clinical samples	1.Qualitative detection of	ISO/TS 5798:2022 (E)

	SARS-CoV-2 nucleic acid by real-time RT-PCR	
Materials / Products tested	Types of test / Properties measured	Applied standards / Techniques used
Chemical Tests		
l. Water for human consumption	l. Determination of hexavelent chromium	HACH LANGE (LCK 313), by photometry
	2. Determination of sulphates ions	HACH LANGE (Sulfa Ver 4 Sulfate), by photometry
	3. Determination of ammonium ions	HACH LANGE (LCK 304), by photometry
	4. Determination of phosphates ions	HACH LANGE (Phos Ver 3 Phosphate), by photometry
	5. Determination of iron	In-house method based on APHA* 3111 B Method Code: MX-15
	6. Determination of copper	In-house method based on APHA* 3111 B Method Code: MX-15
	7. Determination of zinc	In-house method based on APHA* 3111 B Method Code: MX-15
	8. Determination of aluminium	In-house method based on APHA3113-B Method Code:MX-25
	9. Determination of potassium	In-house method based on APHA 3111-B Method Code:MX-26
	10. Determination of sodium	In-house method based on APHA 3111-B Method Code:MX-27
	11. Determination of mercury	In-house method based on APHA 3112-B Method code:MX-21
	12. Determination of boron	HACH LANGE LCK 307
	13. Determination of cyanide ions	HACH LANGE LCK 315
	14. Determination of fluoride ions	HACH LANGE LCK 323

	15. Determination of TDS	APHA 2540-C
Materials / Products tested	Types of test / Properties measured	Applied standards / Techniques used
2. Surface water, water for human consumption	1. Determination nitrites ions — High Range	HANNA C200 (HI 93708), by photometry
	2. Determination nitrite ions	MERCK Pharo 300 (Merck1. 14776), by photometry
3. Surface water, sea water, swimming pool and other similar recreational waters, water for human consumption	1. Determination of alkalinity	APHA* 2320-B
	2.Determination of chloride ions	APHA* 4500Cl-B
4. Surface water, water for human consumption	1. Determination of total hardness	In-house method based on APHA* 2340-C B Method Code: MX-04
	2. Determination of calcium	In-house method based on APHA* 3500 Ca-B Method Code: MX-05
	3. Determination of nitrate ions	HACH LANGE (Nitra Ver 5 Nitrate Reagent), by photometry
	4. Determination of lead	In-house method based on APHA* 3113-B Method Code: MX-14
	5. Determination of nickel	In-house method based on APHA* 3113-B Method Code: NIX-14
	6. Determination of chromium	In-house method based on APHA* 3113-B Method Code: MX-14
	7. Determination of cadmium	In-house method based on APHA* 3113-13 Method Code: MX-14
	8. Determination of manganese	In-house method based on APHA* 3113-B Method Code: MX-14
	9. Determination of arsenic	In-house method based on APHA* 3113-B Method Code: MX-14
	10. Determination of magnesium	APHA* 3500-Mg B

Materials/ Products tested	Types of test/ Properties measured	Applied standards/ Techniques used
5. Surface water, water for human consumption and wastewater	l . Determination of pH	APHA* 4500-H^+
	2. Determination of conductivity	APHA* 2510-B
6. Wastewater	1. Determination of BOD	In-house method based on APHA* 5210 D Method Code: MX-13
	2. Determination of COD	HACH LANGE (LCK 314, LCK 114)
	3. Determination of total suspended solids (TSS)	In-house method based on APHA* 2540 D Method Code: MX-11
	4. Determination of chlorides	APHA 4500-C1- B
7. Water for haemodialysis and related therapies	1. Determination of copper	In-house method based on APHA* 3111-B Method Code: MX-15
	2. Determination of lead	In-house method based on APHA* 3 1 13-B by photometry Method Code: MX- 14
	3. Determination of sulphates ions	HACH LANGE (Sulfa ver 4 sulfate) by photometry
	4. Determination of zinc	In-house method based on APHA* 3111-B Method Code: MX-15
	5. Determination of arsenic	In-house method based on APHA* 3113-B Method Code: MX-14
	6. Determination of cadmium	In-house method based on APHA* 3113-B Method Code: MX- 14
	7. Determination of chromium	In-house method based on APHA* 3113-B Method Code: MX-14

Materials/ Products tested	Types of test/ Properties measured	Applied standards/ Techniques used
7. Water for haemodialysis and related therapies (continued)	8. Determination of mercury	In-house method based on APHA 31 12-B Method Code:MX-21
	9. Determination of aluminium	In-house method based on APHA 3113-B Method Code:MX-25
	10. Determination of potassium	In-house method based on APHA 3111-13 Method Code:MX-26
	11. Determination of sodium	In-house method based on APHA 3111-B Method Code:MX-27
8. Inland water	1. Determination of TDS	APHA 2540-C
	2. Determination of nitrogen Kjeldahl	In-house method based on HACH LANGE Method Code:MX-29
9. Surface water	1. Determination of COD	HACH LANGE (LCK 314, LCK 114), by photometry
	2. Determination of TSS	In-house method based on APHA* 2540-D Method Code: MX-11
	3. Determination of sulfate ions	HACH LANGE (Sulfa ver 4 Sulfate), by photometry
	4. Determination of ammonium ions	HACH LANGE (LCK 304), by photometry
	5. Determination of phosphates ions	HACH LANGE (Phos Ver 3 Phosphate), by photometry

* APHA: American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 23nd Edition, 2017

Site of assessment: **Permanent Laboratory premises, 22 Papakiriazi str., 412 22, Larissa, Greece.** Approved signatories: **M. Kyritsi, F. Kolokythopoulou, A. Daskalaki, M. Hatzinikou, M. Gennata, D. Gagtzis**

This scope of Accreditation replaces the previous one dated 21.03.2025.
The Accreditation Certificate No. **787**-4, to ELOT EN ISO/IEC 17025:2017, is valid until 19.01.2029.

Athens, 16th of April 2026

Konstantinou Evangelos Apostolos
CEO of ESYD