Hellenic Accreditation System

Annex F1/12 to the Certificate No. **919**-4

SCOPE of ACCREDITATION

of the

Laboratory of Hygiene and Epidemiology

of

School of Medicine, University of Ioannina

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
Microbiological Tests		
1. Potable Water, Surface Water, swimming pool water and sea water	1. Enumeration of coliforms and Escherichia *coli*	ISO 9308-1:2014 Amd 1:2016
	2. Detection and enumeration of *Pseudomonas aeruginosa*	ISO 16266:2006
	3. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	4. Enumeration of culturable micro-organisms at 22±2 ºC and at 36±2 ºC	ISO 6222:1999
2. Potable Water, Surface Water and Swimming Pool water	Enumeration of *Clostridium perfringens (including spores)*	ISO 14189:2013
3. Water with low concentration of interfering microorganisms (Matrix A)	Enumeration of *Legionella spp.*	ISO 11731:2017 Procedure 5,7, Medium A & C-GVPC Procedure 8,9,10 Medium A & C-GVPC
4. Water with a high concentration of interfering microorganisms (Matrix B)	Enumeration of *Legionella spp.*	ISO 11731:2017 Procedure 1,2,3 Medium C-GVPC Procedure 8,9,10 Medium C-GVPC Procedure 11,12,13 Medium C-GVPC
5. Treated wastewater from treatment plant	1. Enumeration of coliforms and Escherichia *coli*	ISO 9308-1:2014 Amd 1:2016
5. Treated wastewater from	2. Detection and enumeration of intestinal	ISO 7899-2:2000

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
treatment plant (continued)	enterococci	
Chemical Tests		
1. Potable water	1. Determination of pH	APHA 4500-H+ B
	2. Determination of Conductivity	ASTM D1125-95
	3. Determination of Turbidity	APHA 2130 B
	4. Determination of Total Dissolved Solids (T.D.S.)	APHA 2540 C
	5. Determination of nitrate ions	APHA 4500-NO_3^- B
	6. Determination of nitrite ions	APHA 4500-NO_2^- B
	7. Determination of Ammonium ions	In house method, salicylate hypochlorite method (Method Code: US3432395A)
	8. Determination of Residual chlorine	APHA 4500-Cl G
	9. Determination of Iron	LCK521, HACH (based on ISO 6332-1988 standard and DIN 38406 E1-1 standard)
	10. Determination of Sulphate ions	SulfaVer 4, HACH (based on USEPA 375.4 and APHA 4500-SO_4^{-2} E)
	11. Determination of Copper	LCK329, HACH (Bathocuproine disulphonic acid method)
	12. Determination of Potassium	LCK228, HACH (Kallignost method)
	13. Determination of Cadmium	In-house method based on APHA 3113 B
	14. Determination of Nickel	In-house method based on APHA 3113 B
	15. Determination of Chromium	In-house method based on APHA 3113 B
	16. Determination of Antimony	In-house method based on APHA 3113 B
	17. Determination of Zinc	In-house method based on APHA 3113 B
1. Potable water	18. Determination of Arsenic	In-house method based on APHA 3113 B

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
(continued)	19. Determination of Aluminium	In-house method based on APHA 3113 B
	20. Determination of Lead	In-house method based on APHA 3113 B
	21. Determination of Sodium	In-house method based on APHA 3113 B
	22. Determination of Selenium	In-house method based on APHA 3113 B
2. Swimming pool water	1. Determination of pH	APHA 4500-H+ B
	2. Determination of Conductivity	ASTM D1125-95
	3. Determination of Turbidity	APHA 2130 B
	4. Determination of Residual chlorine	APHA 4500-Cl G
3. Surface water and Wastewater	1. Determination of pH	APHA 4500-H+ B
	2. Determination of Conductivity	ASTM D1125-95
	3. Determination of Turbidity	APHA 2130 B
	4. Determination of nitrate ions	APHA 4500-NO_3^- B
	5. Determination of nitrite ions	APHA 4500-NO_2^- B
	6. Determination of Ammonium ions	In house method, salicylate hypochlorite method (Method Code: US3432395A)
	7. Determination of Chemical oxygen demand (COD)	APHA 5220 D
	8. Determination of Biochemical oxygen demand (BOD)	APHA 5210 B
	9. Determination of Total nitrogen	LCK138, HACH (based on EN ISO 11905-1 and ISO23697-1)
	10. Determination of Total phosphorus	APHA 4500-P E

Site of assessment: **Permanent Laboratory premises, School of Medicine, University Campus of Ioannina**

Approved signatories: **K. Tsilidis, C. Tsiostas, C. Chrimatopoulos**

This scope of Accreditation replaces the previous one, dated 29.03.2024.
The Accreditation Certificate No. **919**-4, according to ELOT EN ISO/IEC 17025:2017, is valid until 19.05.2027.

Athens, 16 Σεπτεμβρίου 2025

Konstantinou Evangelos Apostolos
CEO of ESYD