Hellenic Accreditation System

Annex F1/19 to the Certificate No. **270**-6

SCOPE of ACCREDITATION

of the

Testing Laboratory

“ANALYTIKON” – Nikoleta Foukadaki

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
Chemical Tests		
1. Potable Water, Surface and Groundwater	1. Determination of pH	APHA* 4500-H+, 24th Ed. 2023
	2. Determination of conductivity	In house method based on APHA* 2510-B, 24th Ed. 2023
	3. Determination of alkalinity	In house method based on APHA* 2320-B, 24th Ed. 2023
	4. Determination of chloride	APHA* 4500-Cl--B, 24th Ed. 2023
	5. Determination of residual chlorine	Measurement on site- In house method based on APHA* 4500-CL F, 24th Ed. 2023
	6. Determination of nitrate	HACH LCK 339
	7. Determination of calcium	APHA* 3500-B Ca, 24th Ed. 2023
	8. Determination of magnesium	APHA* 3500-B Mg, 24th Ed. 2023
	9. Determination of turbidity	In house method based on APHA 2130B, 24th Ed. 2023
	10. Determination of Total Suspended Solids (TSS), 103-105° C	In house method based on ELOT 872:2005
	11.Determination of total hardness	In house method based on APHA* 2340-C, 24th Ed. 2023
	12. Determination of sulfates	HACH LCK 153

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
1. Potable Water, Surface and Groundwater (continued)	13. Determination of nitrite	HACH LCK 341
	14. Determination of ammonium	HACH LCK 304
	15. Determination of iron	HACH FERROVER 8008
	16. Determination of Aluminum	HACH LCK 301
	17. Determination of color	In house method based on APHA* 2120-C, 24th Ed. 2023
	18. Determination of phosphate	HACH LCK 348
	19. Determination of total chlorine	Measurement on site - In house method based on APHA* 4500-CL G, 24th Ed. 2023
2. Swimming pool water	1. Determination of pH	APHA* 4500-H+, 24th Ed. 2023
	2. Determination of conductivity	In house method based on APHA* 2510-B, 24th Ed. 2023
	3. Determination of alkalinity	In house method based on APHA* 2320-B, 24th Ed. 2023
	4. Determination of residual chlorine	Measurement on site- In house method based on APHA* 4500-CL F, 24th Ed. 2023
	5. Determination of iron	HACH FERROVER 8008
	6. Determination of total chlorine	Measurement on site - In house method based on APHA* 4500-CL G, 24th Ed. 2023
	7. Determination of Cyanuric acid	HACH LANGE 8139
3. Wastewater	1. Determination of pH	APHA* 4500-H+, 24th Ed. 2023
	2. Determination of conductivity	In house method based on APHA* 2510-B, 24th Ed. 2023
	3. Determination of alkalinity	In house method based on APHA* 2320-B, 24th Ed. 2023
	4. Determination of chloride	APHA* 4500-Cl--B, 24th Ed. 2023
	5. Determination of Ammonium Nitrogen	HACH LCK 304
	6. Determination of Total Nitrogen	HACH LCK 138
	7. Determination of turbidity	In house method based on APHA 2130B, 24th Ed. 2023
	8. Determination of Total Suspended	In house method based on

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3. Wastewater	Solids (TSS), 103-105° C	ELOT 872:2005
	9. Determination of Biochemical Oxygen demand (BOD)	In house method based on APHA 5210 D, 24th Ed. 2023
	10. Determination of Chemical Oxygen demand (COD)	HACH LCK 314 HACH LCK 514
	11. Determination of residual chlorine	In house method based on APHA* 4500-CL F, 24th Ed. 2023
	12. Determination of total phosphorus	HACH LCK 348
	13. Determination of total chlorine	Measurement on site - In house method based on APHA* 4500-CL G, 24th Ed. 2023
(continued) 4. Virgin olive oil	1. Ultraviolet spectroscopic analysis	COI/T.20/Doc. No. 19
	2. Determination of acidity	COI/T.20/Doc. No. 34
	3. Determination of peroxide value	COI/T.20/Doc. No. 35
Organoleptic Tests		
Potable Water	1. Determination of Odor	In house method based on EN 1622:2006
	2. Determination of Taste	In house method based on EN 1622:2006
Sampling		
1. Potable water, swimming pools, wastewater	Sampling for chemical parameters	ISO 5667-1:2023 ISO 5667-3:2024 ISO 5667-5:2006 ISO 5667-10:2020 ISO 5667-14:2014
2. Potable water, swimming pools, sea water, sewage effluent	Sampling for microbiological parameters	ISO 19458:2006 ISO 5667-1:2023 ISO 5667-3:2018 ISO 5667-5:2006 ISO 5667-10:2020 ISO 5667-14:2014
3. Surface samples using Swab test	Horizontal method for sampling for microbiological parameters	ISO 18593:2018

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Microbiological Tests		
1. Environmental surface samples from food production and processing areas	1. Colony count technique at 30°C	ISO 4833-1:2013 /Amd:2022
	2. Enumeration of beta-glucuronidase-positive E. coli. Colony count technique at 44 °C	ISO 16649-2:2001
	3. Enumeration of Listeria monocytogenes	ISO 11290-2:2017
	4. Detection of Salmonella spp. Except Salmonella typhi and Paratyphi	ISO 6579-1:2017
	5. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021/Amd-1:2023
	6. Enumeration of enterobacteriaceae	ISO 21528-2:2017
	7. Detection of L. *Monocytogenes*	ISO 11290-1:2017
	8. Enumeration of coliforms	ISO 4832:2006
2. Food	1. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021/Amd-1:2023
	2. Enumeration of coliforms	ISO 4832:2006
	3. Enumeration of beta-glucuronidase-positive E. coli. Colony count technique at 44 °C	ISO 16649-2:2001
	4. Horizontal method for the enumeration of total coliforms-Colony count method at 30 °C	ISO 4833-1:2013/Amd:2022
	5. Detection of L. *Monocytogenes*	ISO 11290-1:2017
	6. Enumeration *L. monocytogenes*	ISO 11290-2:2017

Tested materials and products	Types of test / Properties to be measured	Applied standards / Techniques to be used
	7. Enumeration of yeasts and moulds having $a_w \leq 0,95$	ISO 21527-2: 2008
	8. Enumeration of yeasts and moulds having $a_w > 0,95$	ISO 21527-1: 2008
	9. Enumeration of Enterobacteriaceae	ISO 21528-2: 2017
	10. Enumeration of Clostridium Perfringens	ISO 15213-2:2023
3. Food (including milk and milk products)	Detection of Salmonella spp. (Except Salmonella typhi and Paratyphi)	ISO 6579-1:2017
4. Potable water, surface and groundwater, swimming pool water	1. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	2. Detection and enumeration of Escherichia coli and coliform bacteria	ISO 9308-1: 2014/Amd-1:2016
	3. Enumeration of total viable count (22 and 36 °C)	ISO 6222:1999
	4. Detection and enumeration of Pseudomonas aeruginosa	ISO 16266:2006
	5. Enumeration of Clostridium perfringens	ISO 14189:2013
5. Sewage effluent	Detection and enumeration of Escherichia coli and coliform bacteria	ISO 9308-1: 2014/Amd-1:2016
6. Sea Water	1. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	2. Detection and enumeration of Escherichia coli and coliform bacteria	ISO 9308-1: 2014/Amd-1:2016
7. Potable water, surface and swimming pool water, cooling tower and air condition water.	1. Detection and enumeration of *Legionella* spp. 2. Serotyping of the following *Legionella* species: *Legionella* spp. *L. pneumophila ser.* 1	ISO 11731:2017 (Matrix A, PR. 5, 7, Matrix B, PR. 8, 9, 10) Legionella Latex agglutination Test

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	L. pneumophila ser. 2-15	

**American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 24th Edition, 2023*

Site of assessment: **Permanent Laboratory premises, 2nd km Agios Nikolaos - Kritsas, 72100, Agios Nikolaos, Crete, Greece**

Approved signatories: **N. Foukadaki, V. Klontza**

This Scope of Accreditation replaces the previous one, dated 02.05.2024.
The Accreditation Certificate No. **270**-6, according to ELOT EN ISO/IEC 17025:2017, is valid until 02.05.2027.

Athens, 29th of August 2025

Konstantinou Evangelos Apostolos
CEO of ESYD