Hellenic Accreditation System

Annex F1/19 to the Certificate No. **99**-7

SCOPE of ACCREDITATION

of the

Testing Laboratory

of

“ISOLAB” H. Tsilfidis & Co Inc.

Materials/ Products tested	Types of test/ Properties measured	Applied methods/ Techniques used
Sampling		
1. Sampling of drinking water from distribution systems, surface water, marine water, water from swimming pools and wastewater	1. Determination of chemical parameters	ISO 5667-1 : 2020 ISO 5667-3 : 2018 ISO 5667-4 : 2016 ISO 5667-5 : 2006 ISO 5667-6 : 2014 ISO 5667-9 : 1992 ISO 5667-10 : 2020 ISO 5667-14 : 2014
	2. Microbiological investigations	ISO 19458 : 2006 ISO 5667-1 : 2020 ISO 5667-5 : 2006 ISO 5667-6 : 2014 ISO 5667-9 : 1992 ISO 5667-10 : 2020 ISO 5667-14 : 2014
2. Surfaces using swabs and contact plates	1. Detection of viable microorganisms	ISO 18593: 2018
Chemical tests		
1. Water Wastes	1. Determination of pH	APHA*4500 B, 23rd Edition, 2017
2. Water	1. Determination of conductivity	APHA* 2510 B, 23rd Edition, 2017
	2. Determination of hardness	APHA* 2340 C, 23rd Edition, 2017
2. Water (continued)	3. Determination of calcium	APHA* 3500-Ca B, 23rd Edition, 2017
	4. Determination of magnesium	APHA* 3500-Mg B, 23rd Edition, 2017

	5. Determination of chloride	APHA* 4500-Cl, 23rd Edition, 2017
	6. Determination of nitrate (Screening method)	APHA* 4500-NO_3^- B, 23rd Edition, 2017
	7. Determination of nitrate	HACH Method 8039
	8. Determination of nitrite	APHA* 4500-NO_2^- B, 23rd Edition, 2017
	9. Determination of ammonium	APHA* 4500 F, 23rd Edition, 2017
	10. Determination of iron	HACH Method 8008
	11. Determination of alkalinity	APHA* 2320 B, 23rd Edition, 2017
3. Wastes	1. Determination of BOD**	APHA* 5210 D, 23rd Edition, 2017
	2. Determination of COD***	APHA* 5220 D, 23rd Edition, 2017
	3. Determination of total suspended solids	APHA* 2540 D, 23rd Edition, 2017
Microbiological tests		
1. Water	1. Detection and enumeration of coliforms and *E. coli*	ISO 9308-1: 2014 / Amd 1:2016
	2. Enumeration of culturable micro-organisms at 22±2ºC and 36±2ºC	ISO 6222: 1999
	3. Detection and enumeration of intestinal enterococci	ISO 7899-2: 2000
	4. Enumeration of *Cl.Perfringens*	ISO 14189: 2013
	5. Detection of *Salmonella* spp.	ISO 19250: 2010
	6. Detection and enumeration of *Pseudomonas aeruginosa*	ISO 16266: 2006
2. Water with a low concentration of interfering microorganisms (Matrix A)	Enumeration of Legionella spp.	ISO 11731:2017, (Annex J, Procedure 5,7 Medium A & C – GVPC), (Annex J, Procedure 8,9,10 Medium A & C – GVPC)
3. Water with a high concentration of interfering microorganisms (Matrix B)	Enumeration of Legionella spp.	ISO 11731:2017, (Annex J, Procedure 8,9,10 Medium C – GVPC)
4. Legionella isolates from water samples	Identification of Legionella pneumophila serogroup 1 and Legionella pneumophila serogroups 2-14.	Latex agglutination by using Legionella Latex Test –Thermo Scientific™
5. Wastes	1. Detection and enumeration of total coliforms	APHA*9222 B, 23rd Edition, 2017
	2. Detection and enumeration of faecal coliforms bacteria	APHA*9222 D, 23rd Edition, 2017
6. Food and animal feeding stuff	1. Detection of *Listeria spp* and *Listeria monocytogenes*	ISO 11290-1: 2017
	2. Enumeration of *Listeria spp* and	ISO 11290-2: 2017

	Listeria monocytogenes	
	3. Enumeration of the total aerobic micro-organisms at 30 °C	ISO 4833-1: 2013/Amd 1:2022
	4. Enumeration of Enterobacteriaceae	ISO 21528-2: 2017
	5. Enumeration of coliforms	ISO 4832: 2006
	6. Enumeration of β–glucuronidase-positive *E. coli*	ISO 16649-2: 2001
	7. Enumeration of coagulase-positive staphylococci	ISO 6888-1: 2021
	8. Enumeration of sulfite-reducing bacteria	ISO 15213: 2003
	9. Enumeration of *Clostridium perfringens*	ISO 7937: 2004
	10. Detection of *Salmonella* spp. and *Salmonella Paratyphi* (not included *Salmonella Typhi*)	ISO 6579-1: 2017/Amd 1:2020
	11. Enumeration of *Bacillus cereus* at 30°C	ISO 7932: 2004
	12. Enumeration of lactic acid bacteria at 30°C	ISO 15214: 1998
7. Food and animal feeding stuffs with aw> 0,95	Enumeration of yeasts and moulds	ISO 21527-1:2008
8. Food and animal feeding stuffs with aw ≤ 0,95	Enumeration of yeasts and moulds	ISO 21527-2:2008
9. Food cans with a pH value greater than or equal to 4,5	1. Determination of stability at 32 °C and at 55 °C	FDA/BAM:2001, Chapter 21A
10. Food cans with a pH value lower than 4,5	1. Determination of stability at 32 °C	FDA/BAM:2001, Chapter 21A
11. Animal faeces and environmental samples from the primary production stage	1. Detection of *Salmonella* spp. and *Salmonella Paratyphi* (not included *Salmonella Typhi*)	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*
*** BOD: biochemical demand oxygen*
**** COD: chemical demand oxygen*

Site of assessment: **Laboratory permanent premises, 37 Andrea Papandreaou Str., Aghios Ioannis Kalamarias, Thessaloniki, Greece.**
Approved signatory: **H. Tsilfidis, M. Tsilfidou, E. Michailidis, S. Katopodis.**

This Scope of Accreditation replaces the previous one dated, 07.09.2022.
The Accreditation Certificate No. **99**-7, to ELOT EN ISO/IEC 17025:2017, is valid until 08.09.2027.

Athens, 06.03.2023

Christos Nestoras
CEO of ESYD