Hellenic Accreditation System

HELLENIC ACCREDITATION SYSTEM

Annex F1/8 to the Certificate No. **1156**-1

SCOPE of ACCREDITATION

of the

Testing Laboratory

«DIMITRIOU BROS General Partnership»

with the distinctive title **«VIOANALYSIS»**

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Chemical Tests		
1. Water (Potable, surface, ground and spring water and swimming pools)	1. Determination of pH (*)	ISO 10523:2008
	2. Determination of electrical conductivity (*)	ΕΛΟΤ EN 27888:1993
	3. Determination of ammonium, nitrogen ammonia and total ammonia (*)	In house method based on HACH method 8038 (Method Code: 05-NX)
	4. Determination of sulfates (*)	In house method based on HACH method 8051 (Method Code: 09-NX)
	5. Determination of nitrates (*)	APHA[(1)] 4500-NO_3^- Method B
	6. Determination of orthophosphates and total phosphorus (*)	In house method based on HACH method 8048 (Method Code: 10-NX)
	7. Determination of nitrites and nitrite nitrogen (*)	In house method based on HACH method 8507 (Method Code: 08-NX)
	8. Determination of residual chlorine (*)	In house method based on HACH method 8021 (Method Code: 06-NX)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	9. Determination of total chlorine	In house method based on HACH method 8167 (Method Code: 11-NX)
	10. Determination of Turbidity (*)	ΕΛΟΤ EN ISO 7027-1:2016
	11. Determination of Color (*)	APHA(1) 2120C
	12. Determination of Chlorides (*)	In house method based on HACH Method LCK 311 (Method Code: 12-NX)
	13. Determination of Total Hardness, Calcium and Magnesium	In house method based on HACH Method LCK 327 (Method Code: 13-NX)
	14. Determination of Fluorides (*)	In house method based on HACH Method 8029 (Method Code: 14-NX)
2. Waste water	1. Determination of pH	ISO 10523:2008
	2. Determination of electrical conductivity	ΕΛΟΤ EN 27888:1993
	3. Determination of Turbidity	ΕΛΟΤ EN ISO 7027-1:2016
	4. Determination of Color	APHA(1) 2120C
	5. Determination of chemical oxygen demand (COD)	HACH method LCI 500
	6. Determination of orthophosphates and total phosphorus	In house method based on HACH method LCK 348 (Method Code: 07-ΛΧ)
	7. Determination of ammonium	In house method based on HACH methods LCK 303 + LCK 304 (Method Code: 05 & 06-ΛΧ)
3. Fresh milk	1. Determination of fat	Internal Method using thermal / optical detector (Method Code: 01-GX)
	2. Determination of protein	Internal Method using thermal / optical detector (Method Code: 02-GX)
4. Olive oil	1. Determination of Peroxide value	COI/T.20/Doc. αριθ. 35
	2. Determination of Acidity	COI/T.20/Doc. αριθ. 34
	3. Ultraviolet spectrophotometric analysis	COI/T.20/Doc. αριθ. 19

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
5. Food	1. Determination of water activity	ISO 18787:2017
	2. Determination of moisture	In house method with the use of electronic moisture analyzer (Method Code: 01-TX)
Microbiological Tests		
1. Potable, surface and swimming pool water	1. Detection and enumeration of total coliform bacteria and *E. coli* (*)	ISO 9308–1:2014
	2. Detection and enumeration of intestinal enterococci (*)	ISO 7899–2:2000
1. Potable, surface and swimming pool water (continued)	3. Enumeration of culturable microorganisms at 22 ± 2ºC and 36 ± 2ºC (*)	ISO 6222:1999
	4. Detection and enumeration of *Pseudomonas aeruginosa* (*)	EN ISO 16266:2006
	5. Enumeration of *Clostridium perfringens* (including spores) (*)	ISO 14189:2013
2. Bottled water	1. Detection and enumeration of *Pseudomonas aeruginosa* (*)	EN ISO 16266:2006
3. Food and animal feeding stuffs	1. Enumeration of microorganisms – colony count technique at 30ºC	ISO 4833–1:2013
	2. Detection and enumeration of *Enterobacteriaceae*	ISO 21528–2:2017
	3. Enumeration of *Coliforms* – Colony count technique at 37ºC	ISO 4832:2006
	4. Enumeration of β-glucuronidase-positive *Escherichia coli*	ISO 16649-2:2001
	5. Enumeration of coagulase – positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021
	6. Detection of *Salmonella spp* except *S. typhi* και *paratyphi*	ISO 6579-1:2017
	7. Detection of *Listeria monocytogenes*	ISO 11290-1:2017
	8. Enumeration of *Clostridium perfringens*	ISO 15213–2:2023
	9. Detection and enumeration of *Listeria monocytogenes*	ISO 11290-2:2017
	10. Enumeration of presumptive Bacillus cereus	ISO 7932:2004
	11. Enumeration of mesophilic lactic acid becteria (30ºC)	ISO 15214:1998
4. Food and animal feeding stuffs with $a_w > 0,95$	Enumeration of yeasts and moulds	ISO 21527-1:2008

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
5. Food and animal feeding stuffs with $a_w \leq 0,95$	Enumeration of yeasts and moulds	ISO 21527-2:2008
6. Animal faeces and samples from the primary production stage	Detection of *Salmonella spp* except *S. typhi* και *paratyphi*	ISO 6579-1:2017
7.Water (potable, natural, industrial, waste)	Enumeration of *Legionella spp*	ISO 11731 : 2017
8. Treated waste water from treatment plant	1. Detection and enumeration of coliform bacteria and Escherichia coli	ISO 9308-1:2014
	2. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
9. Sea water	1. Detection and enumeration of total coliform bacteria and *E. coli* (*)	ISO 9308–1:2014
	2. Detection and enumeration of intestinal enterococci (*)	ISO 7899–2:2000
Sampling		
1. Drinking water, water for human consumption, marine waters	1. Determination of chemical parameters	ISO 5667-1:2006 ISO 5667-3:2012 ISO 5667-5:2006 ISO 5667-9:1992 ISO 5667-14:1998
	2. Determination of microorganisms	ISO 19458:2006 ISO 5667-1:2006 ISO 5667-3:2012 ISO 5667-5:2006 ISO 5667-9:1992 ISO 5667-14:1998
2. Carcases	Carcass sampling for microbiological analysis	ISO 17604:2015
3. Surfaces in the food chain environment	Horizontal methods for surface sampling	ISO 18593:2018

**Methods marked with (*) are in accordance with the method specification criteria of Common Ministerial Δ1(δ)/ΓΠ οικ. 27829/2023 (ΦΕΚ 3525/Β` 25.5.2023) concerning the quality of water for human consumption.*

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

Site of assessment: **Permanent Laboratory premises, Arx. Makariou 11, WB 123, PC 452 21, Ioannina, Greece**
Approved signatories: **D. Dimitriou, I. Pitsika**

This Scope of Accreditation replaces the previous one, dated 02.06.2023.
The Accreditation Certificate No. **1156**-1, according to ELOT EN ISO/IEC 17025: 2017, has been renewed until 18.02.2028.

Athens, 30th of September 2026

Konstantinou Evangelos Apostolos
CEO of ESYD