Hellenic Accreditation System

Annex F1/B14 to the Certificate No **1079**-6

SCOPE of ACCREDITATION

of the

Analytical Laboratory

of

ANALYSIS Single-Member Societe Anonyme for Laboratory Testing of Food, Beverages and Water

in Patra

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
Chemical Testing		
1. Soil	Mechanical/Particle size analysis: Sand % - Silt% - Clay%	In house method based on Plant, Soil and Water Reference, Methods for the Western Region. 1994, WCC S14-10, WCC-103 Publication WREP-125, 2nd Edition Method: XT-36
	pH	In house method (**Electrometry paste saturation)** based on WCC-103 Publication, WREP-125, 2nd Edition. Method: XT-18
	Conductivity	In house method XT-19 (**Electrometry paste saturation)** based on WCC-103 Publication, WREP-125, 2nd Edition. Method: XT-19
1. Soil (cont.)	Organic matter	In house method (Walkley – Black, titrimetric) based on WCC-103 Publication, WREP-125, 2nd Edition. Method: XT-20
	Determination of Total Phosphorus (P)	In house method (OLSEN) based on WCC-103 Publication WREP-125, 2nd Edition. Method: XT-28

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Determination of nitrate nitrogen ($N\text{-}NO_3$)	In house method based on WCC-103 Publication WREP-125, 2nd Edition. Method: XT-35
2.Water (Potable, bottled, surface, ground and spring water, swimming pools, seawater and waste water)	Electrometric determination of pH	In house method based on APHA 4500-H+: 24th Edition, 2023 Method: XN-01*
	Determination of conductivity	In house method based on APHA 2510: 24th Edition, 2023 Method: XN-02*
3.Water (Potable, bottled, surface, ground and spring water, swimming pools, seawater)	Determination of nitrates (in water with low organic matter)	In house method based on APHA 4500-NO_3: 24th Edition, 2023 (Ultraviolet spectrophotometric) Method: XN-08*
	Determination of nitrites (in non treated water)	In house method based on APHA 4500-NO_2: 24th Edition, 2023 (colorimetric – azo dye) Method: XN-06*
	Determination of ammonia	In house method based on APHA 4500-NH_3: 17th edition, 1989 (Nesslerization method) Method: XN-07*
	Determination of hardness	APHA 2340.C, 24th Edition, 2023 Method: XN-04 *
	Determination of chloride ion-Cl	In house method based on APHA 4500-Cl- : 24th Edition, 2023 Method: XN-09*
3.Water (cont.) (Potable, bottled, surface, ground and spring water, swimming pools, seawater)	Determination of Calcium ions	In house method based on APHA 3111B, 3500Ca, 24th Edition, 2023 Method: XN-03
	Determination of Magnesium ions	In house method based on APHA 3500Mg B, 24th Edition, 2023 Method: XN-05
	Determination of Alkalinity	In house method based on APHA 2320, 24th Edition, 2023 Method: XN-10
	Determination of Bicarbonates	In house method based on APHA 2320, 24th Edition, 2023 Method: XN-10
	Determination of Orthophosphates	In house photometric method based on APHA

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
		4500-P, 24th Edition, 2023 Method: XN-11
	Determination of Sulphate anions	In house method based on APHA 4500E, 24th Edition, 2023 Method: XN-13*
	Determination of Hexavalent Chromium (VI) ions	In house photometric method based on APHA 3500-Cr, 24th Edition, 2023 Method: XN-15*
	Determination of Fluoride anions	In house photometric method Method: XN-16*
4. Milk	Determination of: Fat Proteins Lactose Total solids	In house method based on ISO 9622:2013 (IDF 141) using automated infrared milk analyzer Method: X/T 39
	Determination of freezing point, thermistor cryoscope method	In house method based in ISO 5764/2009 using thermistor cryoscope Method: X/T 38
	Determination of somatic cells in milk	In house method based in DeLaval KIT TEST Method: X/T 40
	Determination of antibiotic residues in milk, DELVOTEST KIT	In house method based in DELVOTEST KIT Method: X/T 41
Microbiological Testing		
1. Drinking water, seawater, surface water and swimming pool water	Detection and enumeration of intestinal enterococci	ELOT EN ISO 7899-2:2000 Method: ΜΠ-07*
	Detection and enumeration of Escherichia Coli and coliform bacteria	ELOT EN ISO 9308-1:2014, A1/2017 Method: ΜΠ-06*
	Enumeration of *Clostridium Perfringens* (excluding spores)	ELOT EN ISO 14189:2013 Method: ΜΠ-10
	Enumeration of culturable micro-organisms at 22ºC and 37ºC	ELOT EN ISO 6222:1999 Method: ΜΠ-08*, ΜΠ-09*
	Enumeration of *Staphylococcus Aureus*	In house method based on APHA 9213B Method: ΜΠ-28
	Detection of *Salmonella spp*	ELOT EN ISO 19250:2010

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
		Method: ΜΠ-25
2. Drinking water, surface water and swimming pool water	Enumeration of *Pseudomonas Aeruginosa*	ΕΛΟΤ EN ISO 16266:2006 Method: ΜΠ-24*
3. Food and Feed	Horizontal method for the enumeration of microorganisms.	ELOT EN ISO 4833-1:2013 Method: ΜΠ-05
	Horizontal method for the enumeration of *β-glucuronidase (+) E.Coli*	ELOT EN ISO 16649-2:2001 Method: ΜΠ-03
	Enumeration of *Coliforms*	ELOT EN ISO 4832:2006 Method: ΜΠ-012
	Detection and enumeration of *Enterobacteriaceae*	ELOT EN ISO 21528-2:2017 Method: ΜΠ-013
	Detection and enumeration of *Enterobacteriaceae*	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No:BRD 07/24 – 11/13) Method: ΜΠ-22
	Detection of *Salmonella spp (*except of non- typhi and paratyphi)	ELOT EN ISO 6579-1:2017/ A1/2020 Method: ΜΠ-01
	Detection of *Salmonella spp*	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No: BRD 07/11-12/05) Method: ΜΠ-020
	Detection of *Listeria Monocytogenes*	ELOT EN ISO 11290-1: 2017 Method: ΜΠ-02
	Detection of *Listeria Monocytogenes*	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No: BRD 07/4-9/98) Method: ΜΠ-19
	Enumeration of *Listeria Monocytogenes and Listeria spp*	ELOT EN ISO 11290-2: 2017 Method: ΜΠ-26
	Enumeration of *Staphylococcus Coagulase (+)*	ELOT EN ISO 6888-2:2021 Method: ΜΠ-04

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
3. Food and Feed (cont.)	Enumeration of *Bacillus Cereus*	ELOT EN ISO 7932:2004, A1/2020 Method: ΜΠ-14
	Enumeration of *Clostridium Perfringens*	ELOT EN ISO 15213-2:2023 Method: ΜΠ-15
	Enumeration of *Mesophilic Lactic Acid Bacteria*	ELOT EN ISO 15214: 1998 Method: ΜΠ-16
	Enumeration of *Yeasts* and *Moulds* in food/feedstuff with $a_w > 95\%$	ELOT EN ISO 21527-1:2008 Method: ΜΠ-17
	Enumeration of *Yeasts* and *Moulds* in food/feedstuff with $a_w < 95\%$	ELOT EN ISO 21527-2:2008 Method: ΜΠ-18
4. Animal Feces and Samples from the Primary Production Stage	Detection of *Salmonella spp (*except of non- typhi and paratyphi)	ELOT EN ISO 6579-1:2017 Method: ΜΠ-21
Sampling		
1. Potable, surface, underground and sea-coast water.	Water sampling for chemical and microbiological testing.	ISO 19458:2006 ISO 5667-1:2006 ISO 5667-3:2012 ISO 5667-4:1987 ISO 5667-5:2006 ISO 5667-6:2014 ISO 5667-9:1992 ISO 5667-11:2009 ISO 5667-14:2016 Method: Δ-01

*(*) Methods marked with an asterisk have been assessed and conform to the performance criteria described in the Ministerial Decision Δ1(δ)/ΓΠ οικ.27829/2023 (ΦΕΚ 3525/Β` 25.5.2023) regarding the "quality of water for human consumption".*Site of assessement: **Permanent Laboratory premises, Maximou 12-16 Patra, Greece**
Approved signatory: **Bazaka Eva, Panagiotopoulos Christos.**

This Scope of Accreditation replaces the previous one dated 01.09.2025.
The Accreditation Certificate No.1079-6 , to ELOT EN ISO/IEC 17025:2017, is valid until 22.02.2031

Athens 10.06.2026

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CEO of ESYD