

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, 2 nd Edition Method: XT-36
	pH	In house method (Electrometry paste saturation) based on WCC-103 Publication, WREP-125, 2 nd Edition. Method: XT-18
	Conductivity	In house method XT-19 (Electrometry paste saturation) based on WCC-103 Publication, WREP-125, 2 nd Edition. Method: XT-19
1. Soil (cont.)	Organic matter	In house method (Walkley – Black, titrimetric) based on WCC-103 Publication, WREP-125, 2 nd Edition. Method: XT-20
	Determination of Total Phosphorus (P)	In house method (OLSEN) based on WCC-103 Publication WREP-125, 2 nd Edition. Method: XT-28

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Determination of nitrate nitrogen (N-NO ₃)	In house method based on WCC-103 Publication WREP-125, 2 nd 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) 3. Water (cont.) (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 : 17 th 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*
	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

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Determination of Orthophosphates	In house photometric method based on APHA 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: MII-07*
	Detection and enumeration of Escherichia Coli and coliform bacteria	ELOT EN ISO 9308-1:2014, A1/2017 Method: MII-06*
	Enumeration of <i>Clostridium Perfringens</i> (excluding spores)	ELOT EN ISO 14189:2013 Method: MII-10
	Enumeration of culturable micro-organisms at 22°C and 37°C	ELOT EN ISO 6222:1999 Method: MII-08*, MII-09*
	Enumeration of <i>Staphylococcus Aureus</i>	In house method based on APHA 9213B Method: MII-28

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Detection of <i>Salmonella spp</i>	ELOT EN ISO 19250:2010 Method: MII-25
2. Drinking water, surface water and swimming pool water	Enumeration of <i>Pseudomonas Aeruginosa</i>	EAOT EN ISO 16266:2006 Method: MII-24*
3. Food and Feed	Horizontal method for the enumeration of microorganisms.	ELOT EN ISO 4833-1:2013 Method: MII-05
	Horizontal method for the enumeration of β -glucuronidase (+) <i>E.Coli</i>	ELOT EN ISO 16649-2:2001 Method: MII-03
	Enumeration of <i>Coliforms</i>	ELOT EN ISO 4832:2006 Method: MII-012
	Detection and enumeration of <i>Enterobacteriaceae</i>	ELOT EN ISO 21528-2:2017 Method: MII-013
	Detection and enumeration of <i>Enterobacteriaceae</i>	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No:BRD 07/24 – 11/13) Method: MII-22
	Detection of <i>Salmonella spp</i> (except of non- typhi and paratyphi)	ELOT EN ISO 6579-1:2017/ A1/2020 Method: MII-01
	Detection of <i>Salmonella spp</i>	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No: BRD 07/11-12/05) Method: MII-020
	Detection of <i>Listeria Monocytogenes</i>	ELOT EN ISO 11290-1: 2017 Method: MII-02
	Detection of <i>Listeria Monocytogenes</i>	Chromogenic BIORAD NF VALIDATION according to ISO 16140 (AFNOR No: BRD 07/4-9/98) Method: MII-19
	Enumeration of <i>Listeria Monocytogenes</i> and <i>Listeria spp</i>	ELOT EN ISO 11290-2: 2017 Method: MII-26
	Enumeration of <i>Staphylococcus Coagulase (+)</i>	ELOT EN ISO 6888-2:2021

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
3. Food and Feed (cont.)		Method: ΜΠ-04
	Enumeration of <i>Bacillus Cereus</i>	ELOT EN ISO 7932:2004, A1/2020 Method: ΜΠ-14
	Enumeration of <i>Clostridium Perfringens</i>	ELOT EN ISO 15213-2:2023 Method: ΜΠ-15
	Enumeration of <i>Mesophilic Lactic Acid Bacteria</i>	ELOT EN ISO 15214: 1998 Method: ΜΠ-16
	Enumeration of <i>Yeasts and Moulds</i> in food/feedstuff with $a_w > 95\%$	ELOT EN ISO 21527-1:2008 Method: ΜΠ-17
	Enumeration of <i>Yeasts and Moulds</i> 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 <i>Salmonella spp</i> (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 assesement: **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

Konstantinou Evangelos Apostolos
CEO of ESYD

