Hellenic Accreditation System

Annex F1/17 to the Certificate No. **689**-5

SCOPE of ACCREDITATION

of the

Testing Laboratory

BIOCHIMIKI S.A.

Tested materials / products	Types of test / Properties to be measured	Applied Standards / Techniques to be used
Microbiological Tests		
1. Food and animal Feedstuff	1. Enumeration of total aerobic micro-organisms at 30 °C	ISO 4833-1:2013
	2. Enumeration of total Enterobacteriaceae	ISO 21528–2:2017
	3. Enumeration of β-glucuronidase-positive *Escherichia coli*	ISO 16649-2:2001
	4. Enumeration of coagulase – positive staphylococci (*Staphylococcus aureus* and other species)	ISO 6888-2:2021
	5. Detection of *Salmonella* spp (except S. typhi and paratyphi)	ISO 6579-1:2017
	6. Detection of Listeria spp	Compass Listeria Agar Method (AFNOR BKR 23/02-11/02)
	7. Detection of *Listeria monocytogenes*	Compass Listeria Agar Method (AFNOR BKR 23/02-11/02)
	8. Enumeration of *Listeria monocytogenes*	Compass Listeria Agar Method (AFNOR BKR 23/05-12/07)
	9. Horizontal method for the enumeration of coliforms	ISO 4832:2006
1. Food and animal Feedstuff	10. Enumeration of sulphite-reducing	ISO 15213-1:2023

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(continued)	clostridia	
	11. Enumeration of Clostridium perfringens	ISO 15213-2:2023
	12. Enumeration of presumptive Bacillus cereus - Colony-count technique at 30 °C	ISO 7932:2004
2. Food and animal feedstuff with $a_w > 0,95$	Enumeration of yeasts and moulds	ISO 21527-1:2008
3. Food and animal feedstuff with $a_w \leq 0,95$	Enumeration of yeasts and moulds	ISO 21527-2:2008
4. Potable, surface, groundwater and swimming pool water	1. Enumeration of culturable microorganisms at 22±2 °C	ISO 6222: 1999
	2. Enumeration of culturable microorganisms at 36±2 °C	ISO 6222: 1999
	3. Detection and enumeration of coliforms bacteria	ISO 9308 – 1 : 2014
	4. Detection and enumeration of Pseudomonas aeruginosa	ISO 16266: 2006
	5. Enumeration of *Clostridium perfringens* (including spores)	ISO 14189:2013
	6. Enumeration of *Legionella*	ISO 11731:2017 (except § 8.4.2 and 8.4.5)
5. Potable, surface, groundwater swimming pool and coastal water	1. Detection and enumeration of *E. coli*	ISO 9308 – 1 : 2014
	2. Detection and enumeration of intestinal Enterococci	ISO 7899 – 2: 2000
6. Surface water and waste water	Detection and enumeration of total coliforms	APHA* 9222 B
7. Treated wastewater from treatment plant	Enumeration of E. coli	ISO 9308:1-2014
8. Samples of surfaces from the area of food production and food handling	1. Enumeration of the total aerobic micro-organisms at 30 °C	ISO 4833-1:2013
	2. Enumeration of total Enterobacteriaceae	ISO 21528–2:2017

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	3. Enumeration of coagulase – positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021
	4. Detection of Salmonella spp (except S. typhi and paratyphi)	ISO 6579-1:2017
	5. Detection of Listeria spp	Compass Listeria Agar Method (AFNOR BKR 23/02-11/02)
	6. Detection of Listeria monocytogenes	Compass Listeria Agar Method (AFNOR BKR 23/02-11/02)
	7. Enumeration of Listeria monocytogenes	Compass Listeria Agar Method (AFNOR BKR 23/05-12/07)
	8. Horizontal method for the enumeration of coliforms	ISO 4832:2006
	9. Enumeration of yeasts and moulds	ISO 21527-1:2008
	10. Enumeration of β-glucuronidase-positive Escherichia coli	ISO 16649-2:2001
9. Environmental samples from water related matrices (swabs from cooling towers, air conditioning systems, dental units, etc.) (Matrix B)	1. Enumeration of *Legionella*	ISO 11731:2017 Annex J; Procedure 11,12,13; Medium C-GVPC
Chemical Tests		
1. Potable water, surface water and groundwater	1. Determination of anions: Fluoride (F^-), Chloride (Cl^-), Bromide (Br^-), Nitrate (NO_3^-), Nitrite (NO_2^-), Phosphate (PO_4^{3-}), Sulfate (SO_4^{2-}) (#)	In-house method (Ion Chromatography, IC-CD) based on ISO 10304-1:2007/Cor 1: 2010
1. Potable water, surface water and groundwater (continued)	2. Determination of cations: Lithium (Li^+), Sodium (Na^+), Ammonium (NH_4^+), Potassium (K^+), Magnesium (Mg^{2+}), Calcium (Ca^{2+}) (#)	In-house method (Ion Chromatography, IC-CD) based on ISO 14911:1998
	3. Determination of Total Hardness	APHA***** 2340 B.

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	4. Determination of permanent hardness	Calculated by the total and carbonate hardness
	5. Determination of Permanganate Index (Oxidisability) (#)	ISO 8467:1993
	6. Determination of heavy metals: Aluminium (Al), Cadmium (Cd), Chromium (Cr), Copper (Cu), Manganese (Mn), Nickel (Ni), Lead (Pb), Arsenic (As), Iron (Fe) (#)	APHA* 3113B GF AAS Graphite Furnace Atomic Absorption Spectroscopy
2. Potable water, surface, groundwater and Wastewater	1. Determination of pH (#)	Method Based on APHA***** 4500-H^+ B
	2. Determination of electrical conductivity (#)	APHA***** 2510 B
	3. Determination of total and composite alkalinity, carbonate (CO_3^{2-}) and bicarbonate (HCO^{3-}) ions and carbonate hardness	APHA* 2320 B
	4. Determination of hexavalent chromium (Cr VI)) (#)	HACH Method 8023 based on APHA* 3500-Cr B
	5. Determination of Total and dissolved phosphorus (P-PO_4)	HACH: LCK 349, 350
	6. Determination of Ammonia (NH_4^+) (#)	HACH: LCK 304
	7. Determination of Nitrates (NO_3^-) (#)	HACH: LCK 339
	8. Determination of Nitrites (NO_2^-) (#)	HACH: LCK 341
	9. Determination of free cyanide (CN^-) (#)	HACH METHOD 8027
	10. Determination of Boron (B) (#)	Merck: Boron Cell Test method 100826
2. Potable water, surface, groundwater and Wastewater (continued)	11. Determination of Turbidity (#)	APHA* 2130 B, with portable turbidometer
	12. Determination of silicates (SiO_2)	APHA* 4500-SiO2 D+E.
	13. Determination of Total nitrogen (TN)	HACH: LCK 138, 338
	14. Determination of	In house method X 532 part B,

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	Total Kjeldahl nitrogen (TKN), Total oxidisable nitrogen (TON), Inorganic and organic nitrogen	determination by calculation
	15. Determination of Total Solids (Dry Residue - TS)	APHA* 2540 B.
	16. Determination of Total Dissolved Solids (TDS)	Modified method X- APHA* 2540 C.
	17. Determination of Total suspended solids (TSS)	APHA* 2540 D.
3. Potable water, surface, groundwater, sea water and Wastewater	Determination of colour (#)	Modified method APHA* 2120 C
4. Surface water and Wastewater	1. Determination of Chemical Oxygen Demand (COD)	HACH LANGE: LCK 314, 514 based on APHA* 5220-D
	2. Determination of BOD (Biological Oxygen Demand)	Manometric method based on APHA***** 5210 D
5. Potable water, surface, groundwater and swimming pool water	Determination of total and free chlorine	APHA* 4500-G, using portable photometer
6. Vegetable oils	1. Determination of free fatty acids, cold method	International Olive Council COI/T.20/Doc. No. 34
	2. Determination of the peroxide value	International Olive Council COI/T.20/Doc. No. 35
	3. Spectrophotometric investigation in the ultraviolet	International Olive Council COI/T.20/Doc. No. 19
Sampling		
1. Potable water, groundwater, coastal sea water, swimming pool water and waste	Determination of physicochemical parameters and microorganisms	ISO 5667-1:2020 ISO 5667-3:2018 ISO 5667-4:2016 ISO 5667-5:2006 ISO 5667-6:2014 ISO 5667-10:2020 ISO 5667-11:2009 ISO 5667-14:2014

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		ISO 19458:2006 Directive 2006/7/EC
2. Samples from surfaces of food production and food handling area	Sampling techniques using stick swabs on surfaces in the food chain environment in order to detect and enumerate culturable microorganisms	ISO 18593:2018

*****APHA: *American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater"*, 24th edition, 2023
[#] Methods marked with (#) are in accordance with the method specification of Common Ministerial Decision ΚΥΑ Αριθμ. Δ1 (δ)/ΓΠ οικ. 27829/ ΦΕΚ 3525 Β/25.5.2023 *concerning the quality of the water intended for human consumption and applies to the parameters for which performance characteristics are specified.*

Site of assessment: **Permanent laboratory premises – Vinianis Str, Settlement of Nea Evrytania, Lamia, Greece**
Approved signatories: **M. Pitsaris, M. Skyrianou, D. Kalogeropoulou**

This scope of Accreditation replaces the previous one, dated 15.07.2024.
The Accreditation Certificate No. **689**-5, according to ELOT ISO/IEC 17025:2017, is valid until 08.07.2027.

Athens, 13th of February 2026

Konstantinou Evangelos Apostolos
CEO of ESYD