Hellenic Accreditation System

HELLENIC ACCREDITATION SYSTEM

Annex F1/X19 to the Certificate No. **142**-6

SCOPE of ACCREDITATION

of the

Department A΄

of the

Chemical Service of Aegean

of the

General Chemical State Laboratory

Department A΄: *Laboratory Analysis (Rhodes)*

Tested materials/ products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
Chemical tests		
1. Drinking, surface and underground water	1. Determination of Na^+, K^+, Ca^{2+}, Mg^{2+} cations	In-house method, using ion chromatography, based on ELOT EN ISO 14911:2000 Method code: ΜΕΘ 64 10 02
	2. Determination of F^-, Cl^-, NO_2^-, NO^{3-} PO_4^{3-}, SO_4^{2-}, Br^- anions	In-house method using ion chromatography, based on APHA 4110B and ELOT EN ISO 10304.01:2010 Method code: ΜΕΘ 64 10 03
	3. Determination of conductivity	APHA 2510 B Method code: ΜΕΘ 64 10 04
	4. Determination of hardness	APHA 2340 C Method code: ΜΕΘ 64 10 05
	5. Determination of pH	APHA 4500-H^+ B Method code: ΜΕΘ 64 10 06

Tested materials/ products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
1. Drinking, surface and underground water (cont.)	6. Determination of trace elements: Cr, Mn, Cd, Pb, Ni, As, Sb, Hg	In -house method based on EPA 200.8 , ISO 17294-1 & ISO 17294-2 using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Method code: ΜΕΘ 64 10 07
2. Surface water and treated sewage	1. Determination of chemical oxygen demand (COD)	In house method using photometry based on ISO 15705:2002. Method code: ΜΕΘ 64 10 20
3. Surface water and treated sewage	1. Determination of biochemical oxygen demand (BOD_5)	In-house method based on APHA 5210 D. Method code: ΜΕΘ 64 10 21
	2. Determination of total suspended solids (TSS)	ISO 11923:1997 Method code: ΜΕΘ 64 10 22
4. Alcohol and spirit drinks and wines	1. Determination of alcoholic strength	In house method based on Regulation (EC) 2870/2000 and on the Compendium of International Methods Of Analysis-OIV, OIV method MA-AS312-01A by electronic densimeter Method code: ΜΕΘ 64 10 12
5. Alcohol, alcoholic beverages and distillates	1. Determination of volatile congeners: methanol, acetaldehyde, 1-propanol, acetic ethyl ester, 1- and 2-butanol, isobutanol, isoamyl alcohol	In house method based on Regulation (EC) 2870/2000 by Gas Chromatography Method code: ΜΕΘ 64 10 13
6. Beer, malt extract	1. Determination of alcoholic strength and density	In house method based on Ministerial Decision 3006674/1102/0029 (Official Government Gazette B'528/2010) by electronic densimeter and alcoholmeter (NIR) Method code: ΜΕΘ 64 10 11
	2. Determination of alcoholic strength w/w, plato w/w., plato w/v., extract w/w., degree of fermentation	In house method based on Ministerial Decision 3006674/1102/0029 (Official Government Gazette B'528/2010), by calculation Method code: ΜΕΘ 64 10 11

Tested materials/ products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
7. Seized material	Identification of cocaine	In house method based on UNODC "Recommended methods for the Identification and Analysis of Cocaine in Seized Materials" by gas chromatography – mass spectrometry (GC/MS)
Microbiological tests		
1. Drinking, sea, swimming and surface water	1. Detection & Enumeration of intestinal enterococci – Membrane filtration method	ISO 7899-2:2000. Method code: ΜΕΘ 64 10 15
	2. Enumeration of Escherichia coli and coliform bacteria – Membrane filtration method for waters with low bacterial background flora	ISO 9308-1:2014 /Amd 1:2016 Method code: ΜΕΘ 64 10 14
2. Drinking water	1. Enumeration of the sum of vegetable cells and spores of *Cl. perfringens* - Method using membrane filtration	ISO 14189:2013 Method code: ΜΕΘ 64 10 16
	2. Enumeration of culturable micro-organisms at 22°C and 36°C	ISO 6222: 1999 Method code: ΜΕΘ 64 10 18
	3. Detection and Enumeration of *Pseudomonas aeruginosa* - Method by membrane filtration	ISO 16266:2006 Method code: ΜΕΘ 64 10 17
	4. Enumeration of *Legionella*	ISO 11731:2017 (§8.4.3.1) Method code: ΜΕΘ 64 10 19

Site of assessment: **Laboratory permanent premises, Gabriel Haritou Square 17, 85131 Rhodes.**
Approved signatories: **V. Matsis, M. Lachaniati, P. Triantafyllou, Z. Masen, I. Alexandropoulos, M. Vavoura, E. Alchadef.**

This Scope of Accreditation replaces the previous one dated 31.10.2024.
The Accreditation Certificate No. **142**-6, according to ELOT EN ISO/IEC 17025:2017, is valid until 06.11.2028.

Athens, 14.07.2026

Evangelos Apostolos Konstantinou
CEO of ESYD