Hellenic Accreditation System

Annex F1/XIII15 to the Certificate No **142**-6

SCOPE of ACCREDITATION

of the

Chemical Service of Epirus – Western Macedonia

of the

General Chemical State Laboratory

Tested materials/ products	Types of test/ Properties to be measured	Applied standards/ Techniques to be used
Chemical tests		
1. Cheese and processed cheese	1. Determination of the total solids content.	ELOT EN ISO 5534:2005
	2. Determination of the fat content.	ΕΛΟΤ EN ISO 23319/2022
2. Cheeses from ewes', goats' or buffalos' milk or mixtures of them	1. Detection of cow's milk and caseinate	Reg. (EE) 2018/150, Annex VIII
3. Meat, fish, fruits and vegetables and their products	1. Determination of metals: cadmium (Cd), lead (Pb)	*In –house method (43 01 ΜΕΘΤΡΦ 004)* using atomic absorption spectroscopy, based on Regulation EC/333/2007 (and its amendments) and ELOT EN 13804:2013, ELOT EN 14084:2003
4. Fish, seafood and canned fish products	1. Determination of mercury (Hg)	*In –house method (43 01 ΜΕΘΤΡΦ 007)* Based on Regulation EK /333/2007 (and its amendments)
5. Drinking, surface and underground water	1. Determination of lead (Pb), cadmium (Cd), chromium (Cr), manganese (Mn) and nickel (Ni)	*In house method (GFAAS) (43 01 ΜΕΘΤΡΦ005)* based on the standard ΕΛΟΤ EN ISO 15586:2003

Tested materials/ products	Types of test/ Properties to be measured	Applied standards/ Techniques to be used
5. Drinking, surface and underground water (cont.)	2. Determination of cations (Sodium, Potassium, Calcium and Magnesium) and anions (fluorides, chlorides, nitrates and sulphates)	ELOT EN ISO 14911:2000 ISO 10304-1:2007
6. Drinking, surface and underground water	1. Determination of mercury (Hg)	*In –house method HG/AAS (43 01 ΜΕΘΤΡΦ 006)*
7. Drinking, surface and underground water	1.Determination of pH-value	APHA 4500H^+ 24^{rth} Edition, 2023
	2.Determination of conductivity value	APHA 2510B, 24^{rth} Edition, 2023
	3. Determination of ammonium ions	HACH LCK-304, based on APHA 4500-NH_3 F, 24^{rth} Edition, 2023
	4. Determination of nitrite ions	MERCK Spectroquant 1.14776, based on APHA 4500-NO_2 B, 24^{rth} Edition, 2023
	5. Determination of elements (B, V, Cr, Mn, Co, Ni, Cu, Zn, As, Se, Sr, Mo, Ag, Cd, Sn, Sb, Ba, Hg, Pb, U) using ICP-MS	In-house method (43 01 ΜΕΘΠΕΡ 011) based on EPA 200.8
8. Foods	1.Determination of benzoic acid and sorbic acid and their salts	*In –house method (43 01 ΜΕΘΤΡΦ 008)* based on "HPLC in Food Analysis, B.S. Schweigert Editor, Academic Press Ltd., 240 (1988) ISBN 0-12-464781-2"
9. Canned foods	1.Determination of tin (Sn)	*In house method (GFAAS) (43 01 ΜΕΘΤΡΦ010)* based on the standard ΕΛΟΤ EN 15764:2010
10. Fruits and vegetables ((fresh except grapes, peeled, frozen, dried, fruits and vegetables in vinegar, brine or oil, canned), jams, jellies, sweets, mashed potatoes) and wines	1.Determination of total sulfur dioxide (SO_2)	*In house method (43 01 ΜΕΘΤΡΦ009)* based on the Compendium Of International Methods Of Analysis-OIV, method OIV MA-AS323-04A and on Tanner method, by titration
11. Alcohol, spirit drinks, wines	1. Determination of alcoholic strength	*In house method (43 01 ΜΕΘΤΡΦ011)* based on Regulation (EC) 2870/2000 and on the Compendium Of International Methods Of Analysis-OIV, method OIV-MA-AS312-01A by electronic densimeter.
12. Wines and flavored wine products	1. Determination of total acidity	*In house method (43 01 ΜΕΘΤΡΦ012)* based on the Compendium Of International Methods Of Analysis-OIV, method OIV-MA-AS313-01 by titration

Tested materials/ products	Types of test/ Properties to be measured	Applied standards/ Techniques to be used
13. Alcoholic beverages and ethyl alcohol	1. Determination of volatile congeners	*In house method (43 01ΜΕΘΤΡΦ013*) based on Regulation (EC) 2870/2000 by Gas Chromatrography.
Microbiological tests		
1. Drinking, surface and swimming pool water	1. Determination and enumeration of *E. coli* and coliform bacteria	ISO 9308-1:2014
	2. Determination and enumeration of intestinal enterococci	ISO 7899-2:2000
	3. Detection and enumeration of *Pseudomonas aeruginosa*	ISO 16266:2006
	4. Enumeration of culturable micro-organisms by inoculation in a nutrient agar culture medium at 22±2 ºC and 36±2 ºC	ISO 6222:1999

Site of assessment: **Laboratory permanent premises, 30 Dompoli str, 45 332 Ioannina, Greece.**
Approved signatories: **G. Vagenas, E. Palaiologos, C. Bazakas, S. Hitas, K. Soulti, D. Kolioulis, S. Stathi, K. Georgogianni, A. Lakka.**

This Scope of Accreditation replaces the previous one dated 02.05.2024.
The Accreditation Certificate No. **142**-6, to ELOT EN ISO/IEC 17025:2017, is valid until 06.11.2028

Athens, 31.10.2024

Konstantinos Kourtalis
Chairman of ESYD