Hellenic Accreditation System

Annex F1/17 to the Certificate No. **411**-5

SCOPE of ACCREDITATION

Of the

Laboratory

of

Epirus Laboratory of Quality Control. Papathanasiou I.- Lambropoulos I. G.P.

Tested materials/ products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
Chemical tests		
1. Surface, potable, underground water	1. Determination of pH	APHA*4500 H^+-B, 24rd edition, 2023
	2. Determination of ammonium	APHA*4500 NH_3-F 24rd edition, 2023
	3. Determination of nitrites	APHA* 4500 NO_2, 24rd edition, 2023
	4. Determination of nitrates	APHA* 4500 NO_3 -B (UV screening method) 24rd edition, 2023
	5. Determination of Conductivity	APHA* 2510 B, 24rd edition, 2023
	6. Determination of Sulfates	APHA*, 4500-SO_4^{2-} E Turbidimetric Method – F, 24rd edition, 2023
	7. Determination of Chlorides	APHA*, 4500-Cl^- B Argentometric Method – F, 24rd edition, 2023
	8. Determination of readily liberated cyanide & free cyanide	Merck Spectroquant 1.09701 - photometric method analogous to EPA and ISO 6703

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	9. Determination of turbidity	Internal method based on APHA*2130, TURBIDITY, 24rd edition, 2023
2. Potable water	1. Determination of colour	APHA*2120-C, COLOUR, 24rd edition, 2023
	2. Determination of residual chlorine	Manufacturer method of Martini instruments based on APHA 4500-Cl G, 24rd edition, 2023
	3. Determination of iron (Fe)	Internal method based on APHA 3111 B-Fe, FAAS, 24rd edition, 2023
	4.Determination of manganese (Mn)	Internal method based on APHA 3111 B-Mn, FAAS, 24rd edition, 2023
	5.Determination of sodium (Na)	Internal method based on APHA 3500-Na B Flame photometry, 24rd edition, 2023
	6.Determination of potassium (K)	Internal method based on APHA 3500-K B, Flame photometry, 24rd edition, 2023
3. Raw Milk	1. Determination of freezing point	Determination of freezing point – Thermistor cryoscope method, ISO 5764:2009, IDF 108:2009/Annex C
	2. Determination of fat and protein	Manufacturer method of automated analyzer, Mid Infrared Spectrometry (FTIR) (Lactoscope, Delta Instruments), based on ISO 9622:2013 (IDF 141).
	3. Detection of goat milk in sheep milk.	Method of radial immunodiffusion of goat milk in sheep milk SRID test IDBIOTECH
4. Cheese and processed cheese	1. Determination of fat content	ISO 23319:2022
	2. Determination of dry matter	ISO 5534:-2004
	3.Determination of sodium chloride	Internal method based on AOAC Official Method 935.43
	4.Determination of nitrogen according to Kheldahl method	Internal method based on ISO 8968-1:2014 and ISO 1871:2009
5.Animal Feed	1..Determination of nitrogen according to Kheldahl method	Internal method based on ISO 5983-1:2005 and ISO 1871:2009
6. Wastewater	1.Determination of COD	Merck Spectroquant 1.09772-1.09773– photometric method based on ISO 8466-1

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	2.Determiantion of BOD_5	Manufacturer method of VELP based on APHA 5210-5-DAY BOD TEST, 24rd edition, 2023
	3.Determination of total suspended solids (TSS)	Internal method based on APHA, 2540 D.Total Suspended Solids Dried at -103-105oC 24rd edition, 2023
Microbiological tests		
1.Potable, surface and sea water	1.Detection and enumeration of coliforms and *E. coli*	ISO 9308-1: 2014
	2.Detection and enumeration of *Enterococcus*	ISO 7899-2: 2000
2.Potable and surface water	1. Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium (22 °C)	ISO 6222:1999
	2. Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium (37 °C)	ISO 6222:1999
	3. Enumeration of *Cl. perfringens*	ELOT EN ISO 14189:2013
3.Food	1. Detection of *Listeria monocytogenes/Listeria spp*	BIORAD (AFNOR No:BRD 07/4-9/98)
4. Food and feedstuffs	1.Detection of *Salmonella spp*	BIORAD (AFNOR No:BRD 07/11-12/05)
	2. Enumeration of microorganisms -Colony-count technique at 30 °C	ISO 4833-1:2013
	3.Detection and enumeration of coagulase –positive staphylococci	ISO 6888-2:2021
	4. Detection and enumeration of β-glucuronidase-positive *Escherichia coli*	ISO 16649-2:2001
	5.Detection and enumeration of Enterobacteriaceae	ISO 21528-2: 2017
	6. Detection and enumeration of Coliforms	ISO 4832:2006
5.Milk	1. Detection of antimicrobial substances (b-lactams, tetracyclines, macrolides, aminoglycosides,	Diffusion method, DELVO TEST NT/DSM, validated according to the EC guidance document for the

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	sulphonamides)	validation of screening methods of the 20th January 2010
	2. Detection of presence of b-lactams and tetracyclines in milk	Specific antigen antibody reaction - immunochromatography, Analytic planet test
6. Animal faeces and in environmental samples from the primary production stage	1. Detection of *Salmonella spp(except svs typhi ,paratyphi)*	ISO 6579-1:2017
7. Food and animal feeding stuffs with aw>0.95	Enumeration of yeasts and moulds	ISO 21527-1:2008
8. Food and animal feeding stuffs with aw≤0.95	Enumeration of yeasts and moulds	ISO 21527-2:2008
Sampling		
1. Potable water and sea water	1. Determination of microbiological parameters	ISO 19458:2006 ISO 5667-3:-2018 ISO 5667-14:-2014

* American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 24rd Edition, 2023

Site of assessment: **Laboratory permanent premises, KA΄ February 192, Ioannina**
Approved Signatories: **Lambropoulos I., Lagou M.**

This scope of Accreditation replaces the previous one dated 03.07.2023
The Accreditation Certificate No. **411**-5 to ELOT EN ISO/IEC 17025:2017 is valid until 11.02.2029.

Athens, 12.02.2024

Christos Nestoras
CEO of ESYD