Hellenic Accreditation System

Annex F1/VIII16 to the Certificate No. **142-6**

SCOPE of ACCREDITATION
of the
Analytical Laboratory
of the
Departments A΄ and B΄
of the
Chemical Service of Piraeus
of the
General Chemical State Laboratory

DEPARTMENT A΄: *Laboratory for official control of food.*

Tested materials/ Products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
Chemical tests		
1. Cheese	Detection of cows' milk and caseinates in cheese from ewes', goats' or buffallos' milk or mixtures of them	In house method 20 01 ΓΛ 001 by isoelectric focusing based on EU Regulation 2018/150-Annex VIII-Appendix
2. Cheese and processed cheese	1. Determination of fat content	ISO23319:IDF 250/2022
	2. Determination of total solids	ISO 5534/IDF 4:2004
3. Butter	1. Determination of moisture content	In house method 20 01 ΓΛ 004 based on ISO 3727-1/IDF 80-1:2001
	2. Determination of non-fat solid residue content	ISO 3727-2/IDF 80-2:2001

Tested materials/ Products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
	3. Computational determination of fat content	In house method 20 01 ΓΛ 006 based on ISO 3727-3/IDF 80-3:2003
4. Meat products	1. Determination of moisture content	ISO 1442: 2023 Drying method
4. Meat products (cont.)	2. Determination of ash content	ISO 936: 1998
	3. Determination of fat content	ISO 1443: 1973
	4. Determination of Kjeldahl nitrogen	ISO 937: 2023
	5. Determination of L (-) -hydroxyproline	ISO 3496: 1994
	6. Determination of nitrites	ISO 2918:1975
5. Nuts, dried fruits, cereals, cereal based foods for infants and young children, and spices	Determination of Aflatoxins B1, B2, G1, G2	In house method 20 01 ΑΦΛ 05 (by HPLC) based on official method of analysis of AOAC. 991.31, chapter 49, p.22-24, 2000
6. Milk	Determination of Aflatoxin M1	In house Method 20 01 M1 01 (by HPLC) based on Standard ISO 14501 - IDF 171:2021
7. Fish and fishery products	Determination of histamine	In house Method 20 01 ΙΣΤ 01 (by HPLC), based on J.A.O.A.C. Intern. Vol.81, No 5, pp 991-998, 1998

Tested materials/ Products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
8. Cereals, dried fruits, coffee and cocoa, beer, wine and grape juice, spices and their products	Determination of Ochratoxin A	In house method 20 01 OTA 02 (by HPLC with fluorescence detector or tandem mass spectrometry) based on "Validation of analytical methods to determine the content of aflatoxin, ochratoxin and patulin in foodstuffs of vegetable origin." Report on Workpackage 4.9, Immunoaffinity column clean-up with liquid chromatography for the determination of Ochratoxin A in barley: Collaborative Study." European Commission, BCR information, chemical analysis, Directorate-General, Science, Research and Development, Report, EUR 18954 EN, 1999."
9. Cereals	Determination of Deoxynivanenol (DON), Zearalenone (ZEA) Fumonisine B1 (FB1), Fumonisine B2 (FB2), HT2, and T2.	In house Method 20 01 TOXMS 01 by LC/MS/MS based on «Determination of Deoxynivalenol, Aflatoxin B1, Fumonisin B1&B2, T-2&HT-2 toxins, Zearalenone and Ochratoxin A in feed materials and compound feed, European Commission Joint Research Centre Institute for Reference Materials and Measurements (JRC-IRMM). European Union Reference Laboratory for Mycotoxins (EURL Mycotoxins), collaborative method validation study (MVS), 2015»
10. Shrimps	Determination of SO_2	Iodiometric titrimetric method D-2, Part 2 of the Hellenic Food and Drinks Codex (20 01 ΘΕΙ 001)
11. Frozen fish fillets	Determination of net weight and glaze percentage	In house method 20 01 ΕΠΓ 01 based on standard methods CXS 190/ 1995 and CXS 165/1989 gravimetric determination
12. Products of agricultural origin (nuts, dried fruits, cereals and their products)	Determination of aflatoxins B1, B2, G1, G2	In house method 20 01 AFLATOXMS 01 by HPLC with tandem mass spectrometry based on official method of analysis of AOAC. 991.31,chapter 49, p.22-24, 2000

Tested materials/ Products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
13. Food (Hempseeds, processed hempseeds products and food with hempseeds products)	Determination of tetrahydrocannabinol (THC) και tetrahydrocannabinolic acid (THCA)	In house method 20 01 CANNMS 01 by HPLC with tandem mass spectrometry based on "I. Di Marco Pisciottano, G. Guadagnuolo, V. Soprano, M. De Crescenzo, and P. Gallo, Rapid Communications in Mass Spectrometry, vol. 32, no. 19, 1728–1736, 2018, doi: 10.1002/ rcm.8242."
14. Fruit juices, concentrated fruit juices, solid apple products, cider and other fermented drinks derived from apples or containing apple juice	Determination of patulin	In house method 20 01 PAT 01 by HPLC with tandem mass spectrometry based on "A.Desmarchelier, C.Mujahid, L.Racault, L.Perring and K.Lancova, Analysis of Patulin in Pear-and Apple-Based Foodstuffs by Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry, J.Agric. Food Chem., 2011, 59, 7659-7665, dx.doi.org: 10.1021/jf201461r"

DEPARTMENT B΄: *Laboratory for official control of fuels, lubricants and industrial products*.

Materials/Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Physicochemical tests		
1. Crude petroleum and liquid products	1. Determination of flash point (°C)	EN ISO 2719: 2025 (Procedure A) Pensky Martens closed cup method
	2. Determination of density (Kg/m^3)	ELOT EN ISO 3675:1998 Hydrometer method
	3. Determination of density (Kg/m^3)	ISO 12185: 2024 Determination of density-oscillating U-tube
Chemical tests		
1. Liquid petroleum products (middle distillates)	Determination of fatty methyl ester (FAME)	EN 14078: 2014 Infrared spectrometry method
2. Petroleum and petroleum products	1. Determination of sulfur content (mg/kg, %)	ISO 20847:2004 ISO 8754:2025 ISO 13032:2024 Energy dispersive X-Ray

Materials/Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
	2. Determination of sulfur content (mg/kg, %)	ELOT EN ISO 20846: 2019 Ultraviolet fluorescence method,
4. Diesel, gasoil and kerosene	Determination of n-Butylphenyl Ether (BPE) (active ingredient of accutrace plus euromarker)	method ILIADe 606/ CLEN 2024 GC-MS
5. Diesel, gasoil and kerosene	Determination of 1,3,5 triisopropyl benzene , 1,3,5-tri-tert-butylbenzene (active ingredients of FT39, FT36 markers)	In house method based on ministerial decision 94/2021 (greek government journal 1339/B/2023), ministerial decision 95/2021 (greek government journal 1136/B/2023) and iliade 606/CLEN GC-MS
6. gasoline and ethanol (E85) automotive fuel	Determination of hydrocarbon types and oxygenates	ISO 22854:2025 Multidimensional gas chromatography method
7. liquid fuels	Opinion and Interpretation of results from the analysis of liquid fuels samples	Internal procedure based on ministerial decision 54/2015 (Greek government journal 462/B/2016), EN 590, EN 228, EN 8217 and accredited methods

Site of assessment: **Laboratory permanent premises, Akti Kondyli 32, Piraeus, Greece.**

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Approved signatories for opinions and interpretations : S. Kotsovolou, I. Kyrikou, P.Stamatiadis, G. Intzirtzis

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