

Hellenic Accreditation System



Annex F1/A27 to the Certificate No. **44-7**

SCOPE of ACCREDITATION

of the
Testing Laboratory
of

VELTIA S.A. (Veltia Labs for Life)
(Laboratory in Thessaloniki)

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
Chemical Tests		
1. Food (methods apply to various food categories, accredited to a flexible scope-the detailed scope can be found in the catalogue of accredited activities in the laboratory website).	1. Determination of Moisture	Modified AOAC (AOAC Lat. Ed) methods for each category of products
	2. Determination of Ash	Modified AOAC (AOAC Lat. Ed) methods for each category of products
	3. Determination of Fat Content	Modified AOAC (AOAC Lat. Ed) and ISO methods for each category of products
	4. Determination of Proteins	Modified AOAC (AOAC Lat. Ed) methods for each category of products
	5. Determination of Dietary Fibers	Modified AOAC (AOAC Lat. Ed) methods for each category of products

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
2. Milk, cheese	Determination of Total Solids - Moisture	Modified method based on 925.23 (milk), 920.115 (condensed milk) 948.12 (cheese) AOAC Lat. Ed. OB.01.107 & OB.01.106
3. Food and oils (Accreditation applies to various categories of food, oils and feed in a flexible scope. It is described in detail in the List of Accredited Activities available in the laboratory website)	Determination of metallic elements	Modified method using ICP-MS OB.01.138
4. Food and Drinks (Accreditation applies to various categories of food and drinks in a flexible scope. It is described in detail in the List of Accredited Activities available in the laboratory website)	1. Determination of Sorbic Acid	Modified method based on ISO 3496-1994 ISO 22855:2008 OB.01.134
	2. Determination of Benzoic Acid	Modified method based on ISO 3496-1994 ISO 22855:2008 OB.01.134
	3a. Determination of total Sulfur Dioxide (SO ₂), (HACH)	Modified method using distillation in a nitrogen stream O.07.136
	3b. Determination of total Sulfur Dioxide (SO ₂) (with Discrete analyzer)	Modified method based on AOAC 990.28 and with Discrete Analyzer D06736_06 insert O.07.136
	4. Determination of Propionic acid	Modified method using HPLC-DAD OB.01.152
5. Food	Determination of sugars (Fructose, glucose, sucrose, maltose, lactose)	Modified method based on 982.14 (AOAC Lat. Ed.) OB.01.137
6. Animal Feed Accreditation applies feed in a flexible scope (modification of existing methods, technique, range of determination, quantification limit)	1. Determination of Moisture	Method based on ISO methods for each category of products
	2. Determination of Ash	Method based on ISO methods for each category of products
	3. Determination of Fat Content	Method based on ISO methods for each category of products
	4. Determination of Protein	Method based on ISO methods for each category of products
	5. Determination of crude fiber	Method based on ISO methods for each category of products
	6. Determination of metallic elements	Modified method using ICP-MS OB.01.138

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
7. Vegetables, fruits and products thereof	Determination of nitrate ions NO ₃ ⁻	Modified method based on EN 12014-2 OB.01.133
8. Meat and meat products, cold cuts	1a. Determination of nitrate and nitrite salts (FIA)	In – house method based on AN 5210 & 5211 FOSS OB.01.149
	1b. Determination of nitrate and nitrite salts (with Discrete analyzer)	Internal Method with Discrete Analyzer AQ300 EPA-126-D Rev3 O.07.155
	3. Determination of hydroxy-proline (collagen)	Modified method based on ISO 3496-1994 O.B. 01.139
<p>Test categories 1, 3, 4, 6 and 8.1b are accredited in a flexible scope. Therefore, the laboratory may modify, improve or develop new methods, which are considered accredited according to Guideline KO-EYEA/01/00/28-07-2011.</p> <p>The accredited tests are described in detail in the Analytical List of Accredited Activities, which is available at the laboratory web site.</p>		
9. Fruits, vegetables, juices, jams, syrups, compotes	Determination of soluble dry residue (Brix)	Modified method based on Regulation (EE) 974/2014 OB.01.150
10. Juices, soft drinks, tea, alcoholic beverages, food	Determination of Ethanol (enzymatic)	Modified method based on AOAC 2019.08, OB.01.153
11. Milk and dairy products, food	Determination of Lactose (enzymatic)	Modified method based on AOAC 2020.08, OB.01.154

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
<p>12. Food of plant origin (based on ESYD/G-FYTOPROST 2016 and SANTE lat. ed.)</p> <p>a) Fruits and vegetable with high water content</p> <p>b) Cereals and legumes</p> <p>c) High fat content products of plant origin</p> <p>d) Difficult or unique commodities</p>	<p>Determination of pesticide residues (flexible scope) of the categories:</p> <p>Organophosphates, Organochlorines, Pyrethroids, Carbamates, Triazoles, Triazines, Dinitroanilines, Amides, Bendimidazoles, Benzoyl-ureas, Sulfonyl-ureas, Phenyl-ureas, Strobilurins, Neonicotinoids, Aryloxy-alcanoic acids, polars and high polar, acid (conjugates, salts and/or esters), phenoxy carboxylic acids, dithiocarbamates, Aminolalcohols, Glyphosate/Glufosinate, Paraquate/Diquate, Guazatine and others</p> <p>It is described in detail in the List of Accredited Activities available in the laboratory website</p>	<p>Modified method UPLC-MS/MS OB.02.001</p> <p>Modified method GC-MS/MS OB.02.001</p> <p>Modified method GC-MS/MS OB.02.022</p> <p>Modified method LC-MS/MS OB.02.034</p> <p>Modified method UPLC QTOF O.B.02.036</p> <p>Modified method LC-MS/MS and LC-DMS-MS/MS OB.02.037</p> <p>Modified method LC-MS/MS O.B.02.038</p>
<p>13. Infant and baby foods</p>	<p>Determination of pesticide residues (flexible scope) of the categories:</p> <p>Organophosphates, Carbamates, Triazoles, Triazines, Dinitroanilines, Amides, Bendimidazoles, Benzoyl-ureas, Sulfonyl-ureas, Phenyl-ureas, Strobilurins, Neonicotinoids, Aryloxy-alcanoic acids and others</p> <p>As described in detaile in the catalogue of accredited activities in the laboratory website (form E720-2EN) (ESYD/G-FYTOPROST 2016)</p> <p>It is described in detail in the List of Accredited Activities available in the laboratory website</p>	<p>Modified method UPLC-MS/MS OB.02.001</p>
<p>14. Food and Drinks, Infant and Baby Foods, Animal Feed</p> <p>(Accreditation applies to various categories of food, drinks, infant and Baby food and animal feed in a flexible scope. It is described in detail in the List of Accredited Activities available in the laboratory website)</p>	<p>Determination of Toxins / Contaminats (Coumarin) (flexible scope):</p> <p>The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN)</p> <p>It is described in detail in the List of Accredited Activities available in the laboratory website</p>	<p>Modified method UPLC-MS/MS O.B.02.021</p>

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
<p>15. Water</p> <p>(Accreditation applies to various categories of water, with the exception of sea water, in a flexible scope. It is described in detail in the List of Accredited Activities available in the laboratory website)</p>	<p>Determination of pesticide residues (flexible scope):</p> <p>The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN)</p>	<p>Modified method UPLC-MS/MS OB 02.020</p> <p>Modified method GC-MS/MS OB 02.032</p>
<p>Categories 12, 13, 14 and 15 are accredited to a flexible scope. Flexibility applies to (a) the incorporation of new pesticides / toxins to existing methods / matrices (b) the addition of existing matrices to existing methods / pesticides / toxins (c) the addition of new matrices to existing methods / pesticides / toxins (d) the modification of existing methods (analytical technique, range of measurement, quantitation limit). The accredited tests are described in detail in the Analytical List of Accredited Activities, which is available at the laboratory web site.</p>		
<p>16. Waters</p> <p>(Accreditation concerns various categories of water, except seafood, in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)</p>	<p>Determination of contaminants anions in flexible scope</p> <p>The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN)</p> <p>It is described in detail in the List of Accredited Activities available in the laboratory website</p>	<p>Modified method by LC-MS/MS direct injection (*)</p> <p>O.01.045</p>
<p>Category 16 is accredited in a flexible field. Flexibility concerns: (a) the addition of new contaminants to the existing method, (b) the addition of new substrates to the existing method, (c) the modification of the existing method (technique, range, quantification limit). Accredited tests are described in detail in the detailed list of accredited activities on the laboratory website.</p>		

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
17. Waters (Accreditation concerns various categories of water, except seafood, in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)	Determination of anions, cations and other physicochemical parameters in a flexible field of different categories The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website	Modified method based on ISO, APHA-Standard method lat. ed. (*) HACH LCK Photometer Titration pHmeter Discrete analyzer
18. Waters (Accreditation concerns various categories of water, except seafood, in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)	Determination of elementes by ICP-MS The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website	Modified method based on 3125 A, B (APHA-Standard Methods) lat. ed. (*) O.B.01.040 ICP-MS
19. Waters (Accreditation concerns various categories of water, except seafood, in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)	Determination of water contaminants in a flexible field of different categories such as: <ul style="list-style-type: none"> • Determination of polycyclic aromatic hydrocarbons PAHs • Determination of polychlorinated biphenyls PCBs • Determination of polychlorinated triphenyl PCTs • Determination of volatile compounds VOCs • Determination of epichlorohydrin • Determination of acrylamide • Determination of phenolic compounds • Determination of Hydrocarbons in solution or in emulsion - Mineral oils (fats and oils) • Determination of sum / total perfluoroalkyl and polyfluoroalkyl substances (PFAS) • Determination of Haloacetic acids (HAAs) • Determination of Bisphenol A and others The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website .	Modified method based on ISO, AOAC method Lat. Ed. by (*) GC-MS-MS LC-MS-MS GC-FID GC-MS/HS-SPME Large volume injection Direct injection
The parameters in categories 16, 17, 18 and 19 comply with the performance criteria as stated in Directive (EU) 2020/2184 of the European Council, regarding the quality of water for human consumption		

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
20. Swimming pool water (Accreditation concerns in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)	Determination of physicochemical parameters in a flexible field of different categories The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website	Modified method based on ISO, APHA-Standard method lat. ed. by (*) HACH LCK Photometer pHmeter
<p>Test categories 17, 18, 19 and 20 are accredited in a flexible field. Flexibility refers to (a) adding new analyzers to existing methods / substrates, (b) adding existing substrates to existing methods / analyzers, (c) adding new substrates to existing methods / analyzers, (d) modifying existing one's technique, range of determination, quantification limit). Accredited tests are described in detail in the detailed list of accredited activities on the laboratory website.</p> <p>(*) Methods marked with (*) comply with the performance criteria specified in KYA 39381 (Government Gazette 3282) concerning the quality of drinking water.</p>		
21. Wastewater	1. Determination of chloride ions	Modified method based on: 4500-Cl, B (APHA, Standard Methods lat. ed.) O.B.01.007
	2. Determination of pH	4500-H, B (APHA, Standard Methods (APHA, Standard Methods lat. ed.) O.B.01.005
	3. Determination of conductivity	2510 B (APHA, Standard Methods lat. ed.) O.B.01.006
	4. Determination of COD	HACH LCK 314, LCK 514 O.B.01.023
22. Soil (Accreditation concerns in a flexible accreditation field and is described in detail in the detailed list of accredited activities on the laboratory website)	Determination of physicochemical parameters in a flexible field of different categories The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website	Modified methods based on ISO, AOAC method Lat. Ed. with Titration pHmeter Densitometer Pressure calcimeter Photometer - UV Discrete analyzer
	Determination of Contaminants in a flexible field of different categories The detailed scope can be found in the catalog of accredited activities in the laboratory website (form E720-2EN) It is described in detail in the List of Accredited Activities available in the laboratory website	Modified methods based on ISO, AOAC method Lat. Ed. with GC-MSMS

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
Soil (continued)	Determination of Elements in a flexible field The detailed scope can be found in the <u>catalog of accredited activities in the laboratory website</u> (form E720-2EN) It is described in detail in the <u>List of Accredited Activities available in the laboratory website</u>	Modified methods based on ISO, AOAC method Lat. Ed. with ICP-OES
23. Leaves / plant tissues (Accreditation concerns in a flexible accreditation field and is described in detail in the detailed <u>list of accredited activities on the laboratory website</u>)	Determination of physicochemical parameters in a flexible field of different categories The detailed scope can be found in the <u>catalog of accredited activities in the laboratory website</u> (form E720-2EN) It is described in detail in the <u>List of Accredited Activities available in the laboratory website</u>	Modified method with Elemental analyst
	Determination of Trace Elements and Macroelements in a flexible field The detailed scope can be found in the <u>catalog of accredited activities in the laboratory website</u> (form E720-2EN) It is described in detail in the <u>List of Accredited Activities available in the laboratory website</u>	Modified methods with ICP-MS
<p>Test categories 22 and 23 are accredited in a flexible scope. Therefore, the laboratory may modify, improve or develop new methods, which are considered accredited according to Guideline KO-EYEΛ/01/00/28-07-2011.</p> <p>The accredited tests are described in detail in the <u>Analytical List of Accredited Activities, which is available at the laboratory web site.</u></p>		
24. Liquid Fertilizers	Determination of total Kjeldahl nitrogen (N)	Modified method based on: EN 15750 O.B.08.101
25. Solid and Liquid Fertilizers	1. Determination of Water Soluble Phosphorous (P ₂ O ₅)	Modified method based on: Regulation (EU) 2003/2003M.3.1.6 and M.3.2 O.08.103
	2. Determination of Water-Soluble potassium (K ₂ O)	Modified method based on: EN 15477:2009 (Flame photometry) O.B.08.104
	3. Determination of Total Nitrogen (N) by DUMAS method	Modified method based on: AOAC 993.13 O.08.102
	4. Determination of elements As, Cd, Co, Cr, Hg, Pb, Mo, Ni	Modified method based on AOAC method 2017.02 O.B.08.105
26. Liquid and solid formulations of plant protection products.	1. Quantitative determination of active substance using HPLC	Modified method based on: CIPAC L, 649/TC/M/2.1 (HPLC-DAD) O.B.08.301

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
(accreditation applies to various formulations and various active substances in a flexible scope and It is described in detail in the List of Accredited Activities available in the laboratory website)	2. Quantitative determination of active substance using GC	Modified method based on: CIPAC K, 471/TC/M/2.1 (GC-FID) O.B.08.302
Test categories 25.1 and 25.2 are accredited in a <u>flexible scope</u> . Therefore, the laboratory may modify, improve or develop new methods, which are considered accredited according to Guideline KO-EYEA/01/00/28-07-2011.		
27. Liquid and solid formulations of plant protection products.	1. Determination of pH	CIPAC J, MT 75.3 O.B.08.303
	2. Quantitative determination of non-dispersible material	CIPAC K, MT 185 (wet sieve) O.B.08.305
28. Liquid formulations of plant protection products.	Determination of density	Modified method based on CIPAC F, MT 3.1 O.B.08.304
29. Solid formulations of plant protection products.	Determination of the time of complete wetting of wettable powders	CIPAC F, MT 53.3 O.B.08.306
Organoleptic (Sensory) Tests		
30. Potable water	1. Odour	Modified method based on 2160 C (APHA, Standard Methods lat. ed.) (*) O.B.01.033
	2. Taste	Modified method based on 2160 C (APHA, Standard Methods lat. ed.) (*) O.B.01.033
Physical Tests		
31. Potable water, irrigation water,	1. Determination of Tritium	Modified method based on EN ISO 9698:2016 by LSC (**) O.B.01.036

Materials / Products Tested	Types of Test / Properties	Applied Standards / Techniques
ground and surface water	2. Determination of total a & total b activity concentration for the determination of Total Indicative Dose	Modified based on EN ISO 11704:2015 by LSC (**) O.B.01.041
	3. Determination of Uranium isotopes using ICP-MS: U ²³⁴ and U ²³⁸	Modified method based on EN ISO 17294-2 (**), conforming to Presidential Act 12-1057-2016 (GG 241B-2016) and Guideline 2013-51-EURATOM O.B. 01.035
(**) Methods marked with (**) comply with the performance criteria as referred to KYA 39381 (Government Gazette 3282) concerning the quality of drinking water and in particular Government Gazette 241 / B / 9-2-2016		
Sampling		
32. Potable water, borehole water, seawater	1. Determination of physical-chemical parameters	ISO 5667-1:2006 ISO 5667-3:2018 ISO 5667-9:1992 ISO 5667-5:2006, ISO 5667-11:2009
	2. Determination of microorganisms	ISO 5667-1:2006 ISO 5667-3:2018 ISO 5667-9:1992 ISO 5667-5:2006, ISO 5667-11:2009, ISO 19458:2006
33. Raw and processed agricultural products (discrete lots)	Sampling for pesticide residue analysis	In-house method based on: ISO 7002:86“Agricultural food products – Layout for a standard method of sampling from a lot”, 24333:09 “Cereals and cereal products – sampling” “Commission Directive 2002/63/EC of 11 July 2002 establishing Community methods of sampling for the official control of pesticide residues in and on products of plant and animal origin and repealing Directive 79/700/EEC”

Site of assesement: **Laboratory permanent premises, Industrial Area of Thessaloniki – Sindos, Greece**

Approved signatories: **A. Giannousios, M. Stampoulidou, I. Kaidatzis,, M. Nerantzaki, A. Iakovakis, E. Spanou**

This Scope of Accreditation replaces the previous one, dated 20.09.2022.

The Accreditation Certificate No. **44-7**, according to ELOT EN ISO/IEC 17025:2017, is valid until 26.11.2026.

Athens, 1st of November 2022



Christos Nestoras
CEO of ESYD