Hellenic Accreditation System

Annex F1/B33 to the Certificate No. **44**-8

SCOPE of ACCREDITATION

of the

Testing Laboratory

of

VELTIA S.A. (Veltia Labs for Life)

(Laboratory in Athens)

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
Chemical Tests		
1. Food (The flexibility concerns different food categories and is described in detail in the list of accredited activities in flexible scope on the laboratory's website).	Determination of Acrylamide	In house method O.B.05.031 UPLC-MS/MS based on: *J. Agric. Food Chem. 2006,* 54, 7001-7008.
2. Chicken - White Animal Meat Beef, Rabbit, Pork - Red Meat Fish (Salmon, Sea Bass) - White Fatty Meat	Determination of **44** veterinary drugs in food: Arprinocid, Baquiloprin, Carbadox, Ciprofloxacin, Clopidol, Danofloxacin, Dapsone, Diaveridine, Difloxacin, Doxycycline, Enrofloxacin, Ethopabate, Flumequine, Lincomycin, Marbofloxacin, Neospiramycin, Oxacillin, Oxolinic acid, Oxytetracycline, Sarafloxacin, Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine, Sulfachlorpyrazine, Sulfadiazine, Sulfadimethoxine, Sulfadoxine, Sulfaguanidine, Sulfamerazine, Sulfamethazine (Sulfadimidine), Sulfamethoxazole, Sulfamoxole, Sulfanilamide, Sulfanitran, Sulfapyridine, Sulfaquinoxaline, Sulfathiazole, Sulfisomidine, Sulfisoxazole, Tetracycline, Tiamulin, Tilmicosin, Trimethoprim, Valnemulin	Internal method by LC-qTOF based on the implementing regulation (EU) 2021/808 O.05.50

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3. Food of plant and animal origin (based on ESYD/G-FYTOPROST 2016 and SANTE lat. Ed.) a. Fruits and vegetables with high water content b. Cereals, flour, legumes, dried nuts c. High fat content products of plant origin d. Food of aninal origin e. Foods with high content in sugars	Determination of pesticide residues (flexible scope): 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 and others (a, b, c, d, e) As described in detail in the list of tests accredited in flexible scope of the laboratory's website.	In-house methods using: - GC-MS/MS - LC-MS/MS - LC-QTOF (O.05.35, O.05.038, O.05.039, O.05.040, O.05.041, O.05.043, O.05.047, O.05.048, O.05.106, O.05.107, O.05.108, O.05.109) - GC-PFPD-S (O.05.029)
4. Tobacco Non edible plant tissues (plant leaves) (based on ESYD/G-FYTOPROST 2016 and SANTE/12682/2019)	Determination of pesticide residues (flexible scope): As described in detail in the list of tests accredited in flexible scope of the laboratory's website.	In-house methods using: - GC-MS/MS - LC-MS/MS - LC-QTOF (O.B.05.44, O.B.05.047, O05.049, O.05.107) - GC-PFPD-S (O.05.029)
5. Food of plant origin - Herbal decoctions (dried product) - Dried herbs - Tea - Herbs - Spices - Cereals and products cereal milling (processed and unprocessed)	Determination of Pyrrolizidine and Tropane Alkaloids (flexible scope): As described in detail in the list of tests accredited in flexible scope of the laboratory's website.	In house method using LC-MS/MS O.05.110
Categories **3, 4 & 5** are included in a flexible scope. Flexibility concerns: (a) the addition of a new substrate to an existing method / and technique, (b) the addition of an active substance to an existing method / and technique, (c) the addition of equipment to an existing method with the same or similar technique and (d) the modification of characteristics of existing methods (change of functional range of determination, change of quantification limit, etc.). Accredited tests are described in detail in the list of tests accredited in flexible scope on the laboratory's website.		
6. Olive oil, pomace oil, Vegetable fats and oils	1. Determination of free fatty acids, cold method	COI/T.20/Doc No 34 as in force ISO 660:2020
	2. Determination of peroxide value	COI/T.20/Doc No 35 as in force ISO 3690:2017
	3. Determination of moisture (by Karl Fischer)	ISO 8534:2017

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	4. Determination of moisture and volatiles at 103°C	ISO 662:2016-Method B
	5. Determination of the sterol composition and content of sterols and alcoholic compounds by capillary gas chromatography	COI/T.20/Doc No 26 as in force
	6. Determination of fatty acids methyl esters	COI/T.20/Doc No 33 as in force ISO 12966-1:2014
	7. Determination of the composition of triacylglycerol	IUPAC 2.324 COI/T.20/Doc No 32
7. Olive oil, pomace oil	1. Determination of waxes content	COI/T.20/Doc No **28** as in force
	2. Determination of stigmastadienes	COI/T.20/Doc No **11** COI/T.20/Doc No **16** as in force
	3. Determination of the difference between actual and theoretical content of triacyglycerols with ECN42 (ΔECN42)	COI/T.20/Doc No **20** as in force
	4. Determination of the extinction coefficient K (at 270 nm and 232 nm) and the parameter ΔK	COI/T.20/Doc No 19 as in force
8. Olive oil, pomace oil, Vegetable oils	Determination of **14** phthalate and adipate esters (plasticisers): Di-ethyl-adipate (DEA), Di-methyl-phthalate (DMP), Di-ethyl-phthalate (DEP), Tri-butyl-phosphate (TBP), Di-isobutyl-adipate (DIBA), Di-butyl-adipate (DBA), Di-isobutyl-phthalate (DIBP), Di-butyl-phthalate (DBP), Benzyl-butyl-phthalate (BBP), Di-2-ethyl-hexyl-adipate (DEHA), Di-2-ethyl-hexyl-adipate (DEHP), Di-n-octyl-phthalate (DNOP), Di-isononyl-phthalate (DINP), Di-isodecyl-phthalate (DIDP).	In house GC-MS/MS method. O.12.017
9. Olive oil, pomace oil, Animal and Vegetable fats and oils	Determination of **4** polycyclic aromatic hudrocarbons (P.A.H.'s): Benzo-a-anthracene (BaA), Chrysene (ChR), Benzo-b-fluoranthene (BbF), Benzo-a-pyrene (BaP)	In house GC-MS/MS method, based on ISO 15753:2016 O.12.018
10. Vegetable fats and oils	Determination **7** polychlorinated biphenyl (PCB's) PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180	In house GC-MS/MS method O.12.021
11. Food - Vegetable oils and foods based on vegetable oils	Determination of saturated hydrocarbons with mineral oils (MOSH / POSH) and aromatic hydrocarbons with mineral oils (MOAH) with on-line HPLC-GC-FID analysis. By using an automatic analyzer that includes the steps of epoxidation and purification in an alumina column.	ELOT EN 16995 O.12.019
12. Animal and Vegetable fats and oils	Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC-MS/MS Method using acid transesterification and measurement for 2-MCPD, 3-MCPD and glycidol	ISO 18363-3:2017 O.12.020

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
Microbiological Tests		
1. **Food** and Animal feed	1. Enumeration of micro-organisms at 30°C	ISO 4833-1: 2013
	2. Enumeration of Enterobacteriaceae	ISO 21528-2:2017
	3. Enumeration of coliforms	ISO 4832:2006
	4. Enumeration of β-glucuronidase (+) *E. coli*	ISO 16649-2:2001
	5. Enumeration of presumptive Bacillus cereus	ISO 7932: 2004
	6. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2: 2021
	7. Enumeration of yeasts and moulds	ISO 21527-1 (a_w>0,95) & 21527-2 :2008 (a_w≤0,95)
	8. Enumeration of *Cl. perfringens*	ISO 15213-2:2023
	9. Enumeration of anaerobic sulfite reducing bacteria and clostridia	ISO 15213-1:2023
	10. Enumeration of mesophilic lactic acid bacteria	ISO 15214:1998
	11. Detection of *Salmonella* spp (VIDAS PC)	AFNOR BIO12/32-10/11
	12. Detection of *Salmonella* spp (except serovars Typhi & Paratyphi)	ISO 6579-1:2017 / Amd. 1:2020
	13. Detection of *Lísteria* spp (VIDAS)	AFNORBIO 12/2-06/94
	14. Detection of *Listeria* spp and *Listeria monocytogenes*	ISO 11290-1:2017
	15. Enumeration of *Listeria* spp and *Listeria monocytogenes*	ISO 11290-2:2017
	16. Detection of Staphylococcal enterotoxin (VIDAS)	AOAC 2007.06
	17. Detection of *Campylobacter* spp	ISO 10272-1:2017
	18. Detection of *Vibrio parahaemolytius*	ISO 21872-1:2017
	19. Detection of *Cronobacter* spp	ISO 22964:2017
	20. Detection of Shigella spp	ISO 21567:2004
2. Milk and milk products	Enumeration of yeasts and moulds	ISO 6611: 2004
3. **Meat** and meat products	Enumeration of presumptive *Pseudomonas spp*	ISO 13720:2010
4. **Foods**, animal feed and **environmental** production **samples** (except primary **production** stage	Detection of *Salmonella spp*	AFNOR BKR 23/07-10/11

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
environment)		
5. Raw meat products, raw vegetables, raw milk and raw milk dairy products	Detection of *E. coli* O157:H7 (VIDAS)	AFNOR BIO 12/25-05/09
6. Meat products, dairy products, seafood products, vegetable products (except raw products)	Detection of *L. monocytogenes* (VIDAS)	AFNOR BIO 12/09 – 07/02
7. Food and Milk Products	Detection of *L. monocytogenes* (VIDAS PC)	AFNOR BIO 12/27 – 02/10
8. Animal faeces and environmental samples from the primary production stage	Detection of *Salmonella spp* (except serovars Typhi & Paratyphi)	ISO 6579-1:2017 / **Amd.** 1:2020
9. Salmonella isolates	Serotyping of *S. Enteritidis, S. Typhimurium*	ISO/TR 6579-3:2014
10. Drinking water, surface and groundwater whether intended for human consumption or not and swimming pool water	Enumeration of culturable microorganisms at 22 ± 2°C & at 36 ± 2°C	ISO 6222:1999
	Enumeration of *E. coli* and coliform bacteria	ISO 9308-1:2014 & Amd1:2016
	Enumeration of intestinal enterococci	*ISO 7899-2: 2000*
	Enumeration of *Faecal coliforms*	APHA 9222D: 2005
	Enumeration of the spores of sulfite-reducing anaerobes (clostridia)	ISO 6461-2:1986
	Enumeration *P. aeruginosa*	ISO 16266:2006
	Enumeration of *Cl. Perfringens* (including spores)	ISO 14189:2013
	Enumeraion of *Legionella* spp.	ISO 11731:2017
	Detection of Salmonella spp	ISO 19250:2010
	Detection and enumeration of somatic coliphages	ISO 10705-2:2002
	Detection of Shigella spp	APHA 9276:2023
11. Sea Water	1. Enumeration of culturable microorganisms at 22 ± 2°C & at 36 ± 2°C	ISO 6222: 1999
	2. Enumeration of *E. coli* and coliform bacteria	ISO 9308-1:2014 & Amd1:2016
	3. Enumeration of *Faecal coliforms*	APHA 9222D: 2023
	4. Enumeration of intestinal enterococci	ISO 7899-2: 2000

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
	5. Enumeration of *Cl. perfringens* (including spores)	ISO 14189:2013
	6. Detection of Shigella spp	APHA 9276:2023
12. Treated wastewater from treatment plant	1. Enumeration of intestinal enterococci	ISO 7899-2: 2000
	2. Enumeration of *E. coli* and coliform bacteria	ISO 9308-1:2014
	3. Detection of Shigella spp	APHA 9276:2023
13. Water for hemodialysis and relevant treatments	Enumeration of total culturable microorganisms at 20 °C (± 2°C)	ISO 23500-3:2024
Sampling		
1. Samples from surfaces using swabs and contact plates	Horizontal methods for sampling techniques for microbiological tests	ISO 18593:2018
Biological Tests		
1. Cotton (seeds)	Detection of GMO (detection of CaMV 35S promoter, NOS terminator, PATgene, BAR gene, and elementCTP2-CP4-EPSPS)	Internal method (O.14.611) based on 1. ISO 21569:2005 2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009 3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009 4. Sebah et al., Project GMOseek, Development of screening methods for GMOs, Final Report, 2010 5. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009 6. Macherey-Nagel, NucleoSpin Food kit. using Real-timePCR
2. Rice and rice products (food, feed, raw materials)	Detection of Rice – Line LLRICE62 – GM-event LLRICE601 Bt63 Rice	Internal method (O.14.613) based on 1. ISO 21569:2005 2. Event Protocol LLRICE62 – CRL for GM Food and Feed 3. R. Koppel, F. Zimmerli & A. Breitenmoser, Eur. Food Res Technol (2010) 230:731-736 4. Report on the validation of an event-specific method for the detection method for identification of Rice GM-

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
		event LLRICE601 using a Real Time PCR assay. CRL for GM Food and Feed 5. CRL-EM-02/06, verification report Rice Bt63 6. Macherey-Nagel, NucleoSpin Food kit using Real-Time PCR
3. Rice and rice products *(food, feed, raw materials)*	Detection of GMO (detection of CaMV 35S promoter, NOS terminator)	Internal method (O.14.611) based on: 1. ISO 21569:2005 2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009 3. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009 4.Macherey-Nagel, NucleoSpin Food kit using Real-Time PCR
4. Soya and soya products (seeds, food, feed, raw materials)	Detection of GMO (CaMV 35S promoter, NOS terminator, PAT gene, BAR gene, CTP2-CP4-EPSPS element and S-adenosyl-L-methionine synthetase promoter)	Internal method (O.14.611) based on: 1. ISO 21569:2005 2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009 3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009 4. Sebah et al., Project GMOseek, Development of screening methods for GMOs, Final Report, 2010 5. C. Bahrdt, et al., Anal Bioanal Chem 396:2103-2112, 2010 6. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009 7.Macherey-Nagel, NucleoSpin Food kit using Real-Time PCR
5. Corn and corn products (seeds, food, feed, raw materials)	Detection of GMO (CaMV 35S promoter, NOS terminator, PAT gene, BAR gene, CTP2-CP4-EPSPS element)	Internal method (O.14.611) based on: 1. ISO 21569:2005 2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009 3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009 4. Sebah et al., Project GMOseek, Development of

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
		screening methods for GMOs, Final Report, 2010 5. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009 6. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR
6. **Soya** and soya products (**seeds**, food, feed, raw **materials**)	Quantification of genetically modified Roundup Ready Soya (GTS 40-3-2)	Internal method (O.14.614) based on: 1. ISO 21570:2005 2. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR
7. *Corn and corn products* (seeds, food, feed, raw materials)	*Quantification of CaMV 35S promoter in maize*	Internal method (O.14.615) based on: 1. ISO 21570:2005 2.Kodama et al. J. of AOAC International vol. 92, No 1, 2009 3. Kuribara et al. J. of AOAC International vol..85, No 5, 2002 4. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR
8. **Soya** and soya products (**seeds**, food, feed, raw **materials**)	Detection of **14** GM soya events (FG72, MON87769, MON87705, A2704-12, MON89788, A5547-127, DP-305423-1, DP-356043-5, MON87701, CV127, MON87708, DAS-68416-4, DAS-81419-2, DAS-44406-6)	Internal method (O.14.622) based on: 1. Event specific methods of Research Centre, *European Union Reference* Lab for GM Food and Feed. 2. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR
9. Food	Detection of *Equus caballus* (HORSE) DNA	Internal method (O.14.618) based on: 1.DNAnimal Ident RT IPC (LR/HR) HORSE Eurofins. 2.Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR
10. **Food**	Detection of Equidae & porcine DNA	Internal method (O.14.624) based on: 1. DNAnimal Screen Halal IPC (LR) Eurofins 2. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
11. Food and feed	Detection DNA Bovine	Internal method (O.14.625) based on: 1. DNAnimal Ident Beef IPC (LR / HR) for qualitative detection of bovine DNA, Eurofins 2. Macherey-Nagel, NucleoSpin Food kit. PCR using (Real-time PCR)
12. Food	Detection DNA *E.coli* O157	Internal method (O.14.628) based on: 1. ISO 16654:2001 2. ISO 16654:2001/Amd 1:2017 3. *E. coli* O157 Detection PCR kit, Biotecon 4. StarPrep One kit, Biotecon. PCR using (Real-time PCR)
13. Feed	Detection DNA Ruminants	Internal method (O.14.629) based on: 1. kit DNA animal Screen Ruminant IPC (LR/HR) 2. Macherey-Nagel, NucleoSpin Food kit using PCR (Real-time PCR)
14. Rapeseed and its products (seeds, rapeseed meal, food, feed, raw materials).	Qualitative detection of genetic modification in rapeseed samples (NOS terminator, pat(syn) gene, BAR gene, CTP2-CP4-EPSPS element)	Internal method (O.14.630) based on: 1. ISO 21569:2005 2. Macherey-Nagel, NucleoSpin Food kit using PCR (Real-time PCR)
15. Dairy products	Detection of cow milk DNA	Internal method (O.14.633) based on: 1. López-Calleja et. al., International Dairy Journal, 17, 2007: 729-736 2. Macherey-Nagel, NucleoSpin Food kit using PCR (Real-time PCR)
Immunochemical Tests		
1. Food	Quantification of gluten/gliadin	Internal method (O.14.620) based on: 1. ELOT EN 15633.01: 2019 2nd Edition 2. Sandwich Enzyme Immunoassay (AOAC RI120601)

Materials / Products Tested	Types of test / Properties to be measured	Applied Standards / Techniques to be used
2. Food	Quantification of casein allergen	Internal method (O.14.621) based on: 1. ELOT EN 15633.01: 2019 2nd 2. Sandwich ELISA Kit AgraQuant Casein Assay

Site of assesement: **Laboratory permanent premises, Industrial area, Markopoulo, Attiki**

Approved signatories: **A. Giannousios, D. Koraki, P. Konstantinou, I. Kaidatzis, O. Paraskevas, V. Maniou, F. Komaitis, K. Kamperis**

This Scope of Accreditation replaces the previous one, dated 04.08.2023.
The Accreditation Certificate No. **44-8**, according to ELOT EN ISO/IEC 17025:2017, is valid until 26.11.2026.

Athens, 23rd of October 2024

Konstantinos Kourtalis
Chairman of ESYD