Hellenic Accreditation System

VELTIA S.A. (Veltia Labs for Life)

Annex F1/B31 to the Certificate No. **44-7**

SCOPE of ACCREDITATION

of the

Testing Laboratory

of

(Laboratory in Athens)

Materials / Products Tested	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
Chemical Tests		
1. Food (methods referred to various food categories, accredited to a flexible scope-the detailed scope can be found in the catalog of accredited activities in 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.B.05.50

Materials / Products Tested	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
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 (the detailed scope can be found in the catalog of accredited activities in the laboratory's website) (form E720-2EN) (ESYD/G-FYTOPROST 2016)	In-house methods using: - GC-MS/MS - LC-MS/MS - LC-QTOF (O.B.05.35, O.B.05.038, O.B.05.039, O.B.05.040, O.B.05.041, O.B.05.043, O.B.05.047, O.B.05.048, O.B.05.106, O.B.05.107, O.05.108, O.05.109) - GC-PFPD-S (O.B.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): the detailed scope can be found in the catalog of accredited activities in the laboratory's website) (form E720-2EN) (ESYD/G-FYTOPROST 2016).	In-house methods using: - GC-MS/MS - LC-MS/MS - LC-QTOF (O.B.05.44, O.B.05.047, O.B.05.049, O.B.05.107) - GC-PFPD-S (O.B.05.029)
Categories 5 &6 are accredited to a flexible scope. Flexibility applies to (a) the incorporation of new pesticides to existing methods / matrices (b) the addition of existing matrices to existing methods / pesticides (c) the addition of new matrices to existing methods / pesticides (d) the modification of existing methods (analytical technique, range of measurement, quatitation limit). The accredited tests are described in detail in the Analytical List of Accredited Activities, which is available at the laboratory web site.		
5. Olive oil, pomace oil, Vegetable fats and oils	1. Determination of free fatty acids, cold method	Commission Regulation No 2568/91, annex II, COI/T.20/Doc No 34 as in force ISO 660:2020
	2. Determination of peroxide value	Commission Regulation No 2568/91, annex III, COI/T.20/Doc No 35 as in force ISO 3690:2017
	3. Determination of moisture (by Karl Fischer)	ISO 8534:2017
	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	Commission Regulation No 2568/91, annex XIX, COI/T.20/Doc No 26 as in force
	6. Determination of fatty acids methyl esters	Commission Regulation No 2568/91, annex X, COI/T.20/Doc No 33 as in force ISO 12966-1:2014

Materials / Products Tested	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	7. Determination of the composition of triacylglycerol	IUPAC 2.324 COI/T.20/Doc No 32
6. Olive oil, pomace oil	1. Determination of waxes content	Commission Regulation No 2568/91, annex IV and XX, COI/T.20/Doc No 28 as in force
	2. Determination of stigmastadienes	Commission Regulation No 2568/91, annex XVII, 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)	Commission Regulation No 2568/91, annex XVIII, 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	Commission Regulation No 2568/91, annex IX, COI/T.20/Doc No 19 as in force
7. 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 method. O.B.12.017
8. 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.B.12.018
9. 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.B.12.021
10. 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 ISO16995 OB.12.019

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

Food and Animal feed (continued)	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 7937:2004
	9. Enumeration of anaerobic sulfite reducing bacteria and clostridia	ISO 15213:2003
	10. Enumeration of mesophilic lactic acid bacteria	ISO 15214:1998
	11. Detection of *Salmonella* spp (VIDAS)	AFNOR BIO12/16-09/05
	12. Detection of *Salmonella* spp (VIDAS PC)	AFNOR BIO12/32-10/11
	13. Detection of *Salmonella* spp (except serovars Typhi & Paratyphi)	ISO 6579-1:2017
	14. Detection of *Listeria* spp (VIDAS)	AFNORBIO 12/2-06/94
	15. Detection of *Listeria* spp and *Listeria monocytogenes*	ISO 11290-1:2017
	16. Enumeration of *Listeria* spp and *Listeria monocytogenes*	ISO 11290-2:2017
	17. Detection of Staphylococcal enterotoxin (VIDAS)	AOAC 2007.06
	18. Detection of *Campylobacter* spp	ISO 10272-1:2017
	19. Detection of *Vibrio parahaemolytius*	ISO 21872-1:2017
	20. Detection of *Cronobacter* spp	ISO 22964:2017
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 environment)	Detection of *Salmonella spp*	AFNOR BKR 23/07-10/11
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
9. Salmonella isolates	Serotyping of *S. Enteritidis, S. Typhimurium*	ISO/TR 6579-3:2014
10. Water (water for human consumption, surface water, pool water)	1. Enumeration of culturable microorganisms at22±2 °C & at 36±2 °C	ISO 6222:1999
	2. Enumeration of *E. coli* andcoliform bacteria	ISO 9308-1:2014
	3. Enumeration of intestinal enterococci	ISO 7899-2: 2000
	4. Enumeration of *Faecal coliforms*	APHA 9222D: 2005
	5. Enumeration of the spores of sulfite-reducing anaerobes (clostridia)	ISO 6461-2:1986
	6. Enumeration *P. aeruginosa*	ISO 16266:2006
	7. Enumeration of *Cl. perfringens*	ISO 14189:2013
	8. Enumeraion of *Legionella* spp.	ISO 11731:2017
	9. Detection of *Salmonella spp*	ISO 19250:2010
11. Sea Water	1. Enumeration of culturable microorganisms at22±2 °C & at 36±2 °C	ISO 6222: 1999
	2. Enumeration of *E. coli* andcoliform bacteria	ISO 9308-1:2014
	3. Enumeration of *Faecal coliforms*	APHA 9222D: 2005
	4. Enumeration of intestinal enterococci	ISO 7899-2: 2000
	5. Enumeration of *Cl. perfringens*	ISO 14189:2013

12. Treated waste water from treatment plant	1. Enumeration of intestinal enterococci	ISO 7899-2: 2000
	2. Enumeration of *E. coli* and coliform bacteria	ISO 9308-1:2014
13. Water for hemodialysis and relevant treatments	Enumeration of total culturable microorganisms at 20 °C (± 2°C)	ISO 23500-3:2019
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 (OB.04.611) 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 (OB.04.613) 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-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 (OB.04.611) 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 (OB.04.611) 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 (OB.04.611) 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-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 (OB.04.614) 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 (OB.04.615) 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 (OB.04.622) 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 (OB.04.618) 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 (OB.04.624) based on: 1. DNAnimal Screen Halal IPC (LR) Eurofins 2. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR

11. Food and feed	Detection DNA Bovine	Internal method (OB.04.625) 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	Interrnal method (OB.04.628) based on: 1. ISO 16654:2001 2. *E. coli* O157 Detection PCR kit, Biotecon 3. StarPrep One kit, Biotecon. PCR using (Real-time PCR)
Immunochemical Tests		
1. Food	1. Quantification of gluten/gliadin	Internal method (OB.04.620) based on: 1. ELOT EN 15633.01: 2019 2nd Edition 2. Sandwich Enzyme Immunoassay (AOAC RI120601)
2. Food	1. Quantification of casein allergen	Internal method (OB.04.621) 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, E. Bitsika, F. Komaitis**

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

ΕΘΝΙΚΟ ΣΥΣΤΗΜΑ ΔΙΑΠΙΣΤΕΥΣΗΣ ESYD ΑΦΜ: 997000397 - ΔΟΥ: ΚΑΛΛΙΘΕΑΣ

Christos Nestoras

EO of ESYD