# Hellenic Accreditation System

Annex F1/B35 to Certificate No. **44-9**

# SCOPE of ACCREDITATION

of the

Testing Laboratory

of

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

| Materials / Products Tested | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
|---|---|---|
| **Chemical Tests** | | |
| 1. Food<br><br>(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:<br><br>J. Agric. Food Chem. 2006, 54, 7001-7008. |
| 2. Chicken - White Animal Meat<br><br>Beef, Rabbit, Pork - Red Meat<br><br>Fish (Salmon, Sea Bass) - White Fatty Meat | Determination of **44** veterinary drugs in food:<br><br>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<br><br>O.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<br><br>(based on ESYD/G-FYTOPROST 2016 and SANTE lat. Ed.)<br><br>a. Fruits and vegetables with high water content<br>b. Cereals, flour, legumes, dried nuts<br>c. High fat content products of plant origin<br>d. Food of aninal origin<br>e. Foods with high content in sugars<br>f. Wines | Determination of pesticide residues (flexible scope):<br><br>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)<br><br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | In-house methods using:<br>- GC-MS/MS<br>- LC-MS/MS<br>- LC-QTOF<br><br>(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)<br><br>- GC-PFPD-S<br>(O.05.029) |
| 4. Tobacco<br>Non edible plant tissues<br>(plant leaves)<br>(based on ESYD/G-FYTOPROST 2016 and SANTE/12682/2019) | Determination of pesticide residues (flexible scope):<br><br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | In-house methods using:<br>- GC-MS/MS<br>- LC-MS/MS<br>- LC-QTOF<br><br>(O.B.05.44, O.B.05.047, O05.049, O.05.107)<br><br>- GC-PFPD-S<br>(O.05.029) |
| 5. Food of plant origin<br>- Herbal decoctions (dried product)<br>- Dried herbs<br>- Tea<br>- Herbs<br>- Spices<br>- Cereals and products cereal milling (processed and unprocessed) | Determination of Pyrrolizidine and Tropane Alkaloids (flexible scope):<br><br>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<br><br>O.05.110 |
| Categories **1, 3, 4** & **5** are included in a flexible scope.<br>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.).<br>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<br>ISO 660:2020 |
| | 2. Determination of peroxide value | COI/T.20/Doc No 35 as in force<br>ISO 3690:2017 |
| | 3. Determination of moisture (by Karl Fischer) | ISO 8534:2017 |

| Materials / Products Tested | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
|---|---|---|
| | 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<br><br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | COI/T.20/Doc No 26 as in force |
| | 6. Determination of fatty acids methyl esters<br><br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | COI/T.20/Doc No 33 as in force<br>ISO 12966-1:2014 |
| | 7. Determination of the composition of triacylglycerol | IUPAC 2.324<br>COI/T.20/Doc No 32 |
| Categories **6.5 & 6.6** are included in a flexible scope.<br>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.).<br>Accredited tests are described in detail in the list of tests accredited in flexible scope on the laboratory's website. | | |
| 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<br>COI/T.20/Doc No 16<br>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):<br>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).<br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | 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):<br>Benzo-a-anthracene (BaA), Chrysene (ChR),<br>Benzo-b-fluoranthene (BbF), Benzo-a-pyrene (BaP)<br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | In house GC-MS/MS method, based on ISO 15753:2016<br>O.12.018 |

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|---|---|---|
| 10. Vegetable fats and oils | Determination **7** polychlorinated biphenyl (PCB's)<br>PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180<br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | In house GC-MS/MS method<br>O.12.021 |
| 11. 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.<br>Flexibility concerns the addition of a new substrate. | ELOT EN 16995<br>O.12.019 |
| 12. Animal and Vegetable fats and oils | Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC-MS/MS<br>Method using acid transesterification and measurement for 2-MCPD, 3-MCPD and glycidol<br>As described in detail in the list of tests accredited in flexible scope of the laboratory's website. | ISO 18363-3:2017<br>O.12.020 |
| Categories **8, 9, 10, 11** & **12** are included in a flexible scope.<br>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.).<br>Accredited tests are described in detail in the list of tests accredited in flexible scope on the laboratory's website. | | |
| **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)<br>& 21527-2 :2008 ($a_w \leq 0,95$) |
| | 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 |

| Materials / Products Tested | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
|---|---|---|
| | 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 *Listeria* spp. and *Listeria monocytogenes* | ISO 11290-1:2017 |
| | 14. Enumeration of *Listeria* spp. and *Listeria monocytogenes* | ISO 11290-2:2017 |
| | 15. Detection of Staphylococcal enterotoxin (VIDAS) | AOAC 2007.06 |
| | 16. Detection of *Campylobacter* spp. | ISO 10272-1:2017 |
| | 17. Detection of *Vibrio parahaemolyticus* | ISO 21872-1:2017 |
| | 18. Detection of *Cronobacter* spp. | ISO 22964:2017 |
| | 19. Detection of *Shigella* spp. | ISO 21567:2004 |
| 2. Foods | 1. Detection of *Listeria* spp. (VIDAS) | AFNOR BIO 12/2-06/94 |
| 3. Milk and milk products | Enumeration of yeasts and moulds | ISO 6611: 2004 |
| 4. Meat and meat products | Enumeration of presumptive *Pseudomonas* spp. | ISO 13720:2010 |
| 5. Foods, animal feed and environmental production samples (except primary production stage environment) | Detection of *Salmonella* spp. | AFNOR BKR 23/07-10/11 |
| 6. 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 |
| 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 | 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 intestinal enterococci | ISO 7899-2: 2000 |

| Materials / Products Tested | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
|---|---|---|
| | 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* (including spores) | ISO 14189:2013 |
| | 8. Detection of *Salmonella* spp. | ISO 19250:2010 |
| | 9. Detection and enumeration of somatic coliphages | ISO 10705-2:2002 |
| | 10. Detection of *Shigella* spp. | APHA 9276:2023 |
| 11. Water with low background (Matrix A) | Enumeration of *Legionella* spp. | ISO 11731:2017<br>Annex J, Procedures 5,7,8,9,10, Medium A-BCYE & C – GVPC |
| 12. Water with high background (Matrix B) | Enumeration of *Legionella* spp. | ISO 11731:2017<br>Annex J, Procedures 8,9,10, Medium C – GVPC |
| 13. 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 |
| | 5. Enumeration of *Cl. perfringens* (including spores) | ISO 14189:2013 |
| | 6. Detection of *Shigella* spp | APHA 9276:2023 |
| 14. 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 |
| 15. Water for hemodialysis and relevant treatments | Enumeration of total culturable microorganisms at 20 °C (± 2°C) | ISO 23500-3:2024 |
| 16. Environmental samples from areas of food production and food handling (SWAB TESTS) | 1. Detection of Shigella spp. | ISO 21567:2004 |
| | 2. Enumeration of anaerobic sulfite reducing bacteria and clostridia | ISO 15213-1:2023 |

| Materials / Products Tested | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
|---|---|---|
| **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<br><br>(detection of CaMV 35S promoter, NOS terminator, PATgene, BAR gene, and elementCTP2-CP4-EPSPS) | Internal method (O.14.611) based on<br>1. ISO 21569:2005<br>2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009<br>3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009<br>4. Sebah et al., Project GMOseek, Development of screening methods for GMOs, Final Report, 2010<br>5. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009<br>6. Macherey-Nagel, NucleoSpin Food kit.<br><br>using Real-timePCR |
| 2. Rice and rice products (food, feed, raw materials) | Detection of Rice<br><br>– Line LLRICE62<br><br>– GM-event LLRICE601<br><br>Bt63 Rice | Internal method (O.14.613) based on<br>1. ISO 21569:2005<br>2. Event Protocol LLRICE62 – CRL for GM Food and Feed<br>3. R. Koppel, F. Zimmerli & A. Breitenmoser, Eur. Food Res Technol (2010) 230:731-736<br>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<br>5. CRL-EM-02/06, verification report Rice Bt63<br><br>6. 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 |
|---|---|---|
| 3. Rice and rice products (food, feed, raw materials) | Detection of GMO<br>(detection of CaMV 35S promoter, NOS terminator) | Internal method (O.14.611) based on:<br>1. ISO 21569:2005<br>2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009<br>3. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009<br>4.Macherey-Nagel, NucleoSpin Food kit using Real-Time PCR |
| 4. Soya and soya products (seeds, food, feed, raw materials) | Detection of GMO<br>(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:<br>1. ISO 21569:2005<br>2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009<br>3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009<br>4. Sebah et al., Project GMOseek, Development of screening methods for GMOs, Final Report, 2010<br>5. C. Bahrdt, et al., Anal Bioanal Chem 396:2103-2112, 2010<br>6. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009<br>7.Macherey-Nagel, NucleoSpin Food kit using Real-Time PCR |
| 5. Corn and corn products (seeds, food, feed, raw materials) | Detection of GMO<br>(CaMV 35S promoter, NOS terminator, PAT gene, BAR gene, CTP2-CP4-EPSPS element) | Internal method (O.14.611) based on:<br>1. ISO 21569:2005<br>2. Gaudron et al., Eur. Food Res Technol, 229: 295-305, 2009<br>3. Grohmann et al., J. Agric Food Chem, 57: 8913-8920, 2009<br>4. Sebah et al., Project GMOseek, Development of screening methods for GMOs, Final Report, 2010<br>5. Kodama et. al., Journal of AOAC International vol. 92, No. 1, 2009<br>6. 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 |
|---|---|---|
| 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:<br>1. ISO 21570:2005<br>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:<br>1. ISO 21570:2005<br>2.Kodama et al. J. of AOAC International vol. 92, No 1, 2009<br>3. Kuribara et al. J. of AOAC International vol..85, No 5, 2002<br>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<br>(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:<br>1. Event specific methods of Research Centre, European Union Reference Lab for GM Food and Feed.<br>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:<br>1.DNAnimal Ident RT IPC (LR/HR) HORSE Eurofins.<br>2.Macherey-Nagel, NucleoSpin Food kit.<br>using Real-Time PCR |
| 10. Food | Detection of Equidae & porcine DNA | Internal method (O.14.624) based on:<br>1. DNAnimal Screen Halal IPC (LR) Eurofins<br>2. Macherey-Nagel, NucleoSpin Food kit. using Real-Time PCR |
| 11. Food and feed | Detection DNA Bovine | Internal method (O.14.625) based on:<br>1. DNAnimal Ident Beef IPC (LR / HR) for qualitative detection of bovine DNA, Eurofins<br>2. Macherey-Nagel, NucleoSpin Food kit.<br>PCR using (Real-time PCR) |

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|---|---|---|
| 12. Food | Detection DNA *E.coli* O157 | Interrnal method (O.14.628) based on:<br>1. ISO 16654:2001<br>2. ISO 16654:2001/Amd 1:2017<br>3. *E. coli* O157 Detection PCR kit, Biotecon<br>4. StarPrep One kit, Biotecon.<br>PCR using (Real-time PCR) |
| 13. Feed | Detection DNA Ruminants | Internal method (O.14.629) based on:<br>1. kit DNA animal Screen Ruminant IPC (LR/HR)<br>2. Macherey-Nagel, NucleoSpin Food kit<br>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 (0.14.630) based on:<br>1. ISO 21569:2005<br>2. Macherey-Nagel, NucleoSpin Food kit<br>using PCR (Real-time PCR) |
| 15. Dairy products | Detection of cow DNA | Internal method (O.14.633) based on:<br>1. López-Calleja et. al., International Dairy Journal, 17, 2007: 729-736<br>2. Macherey-Nagel, NucleoSpin Food kit<br>using PCR (Real-time PCR) |
| **Immunochemical Tests** | | |
| 1. Food | Quantification of gluten/gliadin | Internal method (O.14.620) based on:<br>1. ELOT EN 15633.01: 2019 2nd Edition<br>2. Sandwich Enzyme Immunoassay (AOAC RI120601) |
| 2. Food | Quantification of casein allergen | Internal method (O.14.621) based on:<br>1. ELOT EN 15633.01: 2019 2nd<br>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, K. Kamperis**

This Scope of Accreditation replaces the previous one, dated 01.08.2025.
The Accreditation Certificate No. **44**-9, according to ELOT EN ISO/IEC 17025:2017, is valid until 26.11.2026.

Athens, 7th of November 2025

Konstantinou Evangelos Apostolos
*CEO of ESYD*