Hellenic Accreditation System

Annex F1/A29 to the Certificate No **1079-6**

SCOPE of ACCREDITATION

of the

Analytical Laboratory

of

ANALYSIS Single-Member Societe Anonyme for Laboratory Testing of Food, Beverages and Water

in Ioannina

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
Chemical Testing		
1. Food of Plant and Animal Origin Commodity groups: Fruits and vegetables with high water content, olives, oils and other fruits and vegetables with high fat content, legumes, cereals and their products, honey, jams, dried fruits with high sugar content, products of animal origin (eggs, milk, meat, seafood, etc.)	Determination in **flexible scope** of pesticide residues of the categories: organophosphates, organochlorines, pyrethroids, triazines, triazoles, dinitroanilines, amides, bendimidazoles, carbamates, aryloxy-alcanoic acids, benzoyl-ureas, sulfonyl-ureas, phenylureas, strobylurines, neonicotinoids, etc As thoroughly described in the Accredited Substances List of the Pesticide Residues Flexible Scope (Document E-25.01.01): http://analysis-laboratories.gr/flexible/	In house methods based on doc. SANTE/12682/2019 using LC-MS/MS and GC-MS/MS techniques Lab code: ΔΠ-25.01
2.Fruits and vegetables	Determination of nitrates	In house method UV-VIS Lab code : XI-01

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Determination of residues of bromide pesticides	In house methods based on EN ISO 13191-02 using GC-MS Lab code: XI-02
	Determination of residues of dithiocarbamate pesticides	In house method UV-VIS Lab code: XI-03
3. Fruits and Vegetables with high water content, oily fruits and products with high oil content and intermediate water content as defined by SANTE/12682/2019	Determination of Dithiocarbamate Residues in Foods of Plant Origin involving Cleavage into Carbon Disulfide, Partitioning into Isooctane and Analysis by GC-MS	In house GC-MS method based on *Analysis of Dithiocarbamate residue in Foods of Plant Origin involving Cleavvage into Carbon Disulfide, Partitioning in isooctane and Determinative Analysis by GC-ECD, (Version 2), Single residual Methods, EURL-SRM, CVUA Stuttgart* και SANTE/12682/2019 Lab-code: XI-90
4. Fruits and Vegetables with high water content (according to SANCO/12571/2013)	Determination of *Fosetyl-Al* and *Phosphonic Acid* residues	In house LC-MS/MS method based on QuPPE 8.1 and SANTE/11945/2015 Lab-code: XI-66
5. Fruits and Vegetables with high water content (according to SANCO/12571/2013)	Determination of *Chlormequat* residues	In house LC-MS/MS method based on QuPPE 8.1 and SANTE/11945/2015 Lab-code: XI-68
6. Fruits and Vegetables with high water content (according to SANTE/12682/2019)	Determination of *Chlorate* and *Perchlorate*	In house LC-MS/MS method based on QuPPE 11 και SANTE/12682/2019 Lab-code: XI-86
7. Fruits and Vegetables with high water content (according to SANTE/12682/2019)	Determination of *ethephon* residues	In house LC-MS/MS method based on QuPPE 11 και SANTE/12682/2019 Lab-code: XI-84

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
8. Fruits and Vegetables with high water content (according to SANTE lat. ed.)	Determination of *Glyphosate*	In house LC-MS/MS method based on QuPPE 12.1 and SANTE lat. Ed. Lab-code: XI-88
9. Fruits and Vegetables with high water content (according to SANTE/12682/2019)	Analysis of Acidic Pesticides Entailing Conjugates and/or Esters in their Residue Definition (2,4-D, Dichlorprop, Fluazifop, Haloxyfop, MCPA, MCPB, Quizalofop)	In house LC-MS/MS method based on *Analysis of Acidic Pesticides Entailing Conjugates and/or Esters in their Residue Definitions, Version 1, Single residual Methods, EURL-SRM, CVUA Stuttgart* και SANTE/12682/2019 Lab-code: XI-85
10. Honey	Acaricides (Amitraz and its metabolites, Coumaphos, tau-Fluvalinate (sum of isomers), Cymiazole)	In house LC-MS/MS method Lab-code: XI-87
11. Bee wax	Acaricides (Amitraz and its metabolites, Coumaphos, tau-Fluvalinate (sum of isomers), Cymiazole)	In house LC-MS/MS and GC-MS/MS method Lab-code: XI-93

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
12. Olive Leaves	Determination of 126 pesticides residues: Acephate, Acetamiprid, Aldicarb sulfoxide, Atrazin, Azoxystrobine, Benalaxyl, Bitertanol, Boscalid, Bupirimate, Buprofezin, Cadusafos, Carbaryl, Carbendazim, Carbofuran, Carboxim, Chinomethionate, Chlorfenviphos, Chlorpropham, Chlorpyriphos methyl, Clothianidin, Coumaphos, Cyproconazole, Cyprodinil, Demeton-S-methyl sulfon, Demeton-S-methyl, Diazinon, Dichlorvos, Dimethoate, Dimethomorph, Diniconazol, Diphenylamin, Dithiofencarb, Diuron, Emamectin, Epoxiconazole, Ethiofencarb, Ethion, Ethoprophos, Etrimphos, Fenamidone, Fenamiphos, Fenarimol, Fenbuconazole, Fenhexamid, Fenoxaprop-P-ethyl, Fenoxycarb, Fluaziphos-P-butyl, Flufenacet, Fluometuron, Fluquinconazole, Flusilazole, Flutriafol, Forchlorfenuron, Formetanate, Heptenophos, Hexaconazole, Imazalil, Imidacloprid, Indoxacarb, Iprovalicarb, Isofenphos, Lenacil, Linuron, Malaoxon, Malathion, Mandipropamid, Mecarbam, Mepanipyrim, Mepronil, Metalaxyl + M, Metazachlor, Methidathion, Methomyl, Metolachlor, Metrafenone, Metribuzine, Mevinphos, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Nicosulfuron, Nuarimol, Omethoate, Oxamyl, Oxydemeton-methyl, Paclobutrazole, Penconazole, Pencycuron, Phenmedipham, Phenthoate, Phosphamidon, Piperonyl butoxide, Pirimicarb, Pirimiphos Ethyl, Pirimiphos methyl, Prochloraz, Profenofos, Propachlor, Propamocarb, Propiconazole, Propoxur, Propyzamid, Prosulfocarb, Pymetrozine, Pyraclostrobin, Pyriproxyfen, Quinalphos, Quinoxyfen, Simazin, Spiridiclofen, Spiroxamin, Tebuconazole, Tebufenpyrad, Temephos, Terbumeton, Terbuthylazine, Tetraconazole, Tolclofos methyl, Tolyfluanid, Triadimefon, Triadimenol, Triazophos, Trifloxystrobin, Zoxamid	In house method by liquid chromatography LC-MS/MS Lab-code: XI-09
13. Cotton (fibres of untreated cotton)	Determination of residues of 22 pesticide residues: Carfentrazone-ethyl, Chlorpyriphos, Chlorpyrifos-methyl, Clofentezine, Cyfluthrin, Cypermethrin-alpha, Deltamethrin, Esfenvalerate, Etoxazole, Fluazifop-P-butyl, tau-Fluvalinate, lamda-Cyhalothrin, Metalaxyl, Oxyfluorfen, Pendimethalin, Pirimicarb, Propyzamide, Pyriproxyfen, Quizalofop-ethyl, Tefluthrin, Tolclofos-methyl	In house residue method employing gas chromatography GC-MS/MS Lab-code: XI-39
14.Wine	Determination of residues of 35 pesticide residues: Acetamiprid, Alachlor, Aldicarb, Buprofezin, Carbaryl, Carbofuran, Carboxim, Cyproconazole, Diphenylamine, Dithiofencarb, Dodine, Ethiofencarb, Ethoprophos, Fenoxycarb, Fenpropimorph, Fenhexamide, Fluometuron, Imazalil, Imidacloprid, Linuron, Methiocarb, Metolachlor, Monolinuron, Monuron, Myclobutanil, Oxadixyl, Paclobutrazole, Penconazole, Propachlor, Propyzamid, Pyrimethanil, Spiroxamine, Terbuthylazine, Thiacloprid, Triadimenol	In house residue method by liquid chromatography LC-MS/MS Lab-code: XI-18

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
15. Animal feed – products with high starch content and low water content - hay, dried alfalfa, straw, vetch	Determination of 80 pesticide residues: Aldicarb, Acetochlor, Alachlor, Benfluralin, beta-BHC, Boscalid, Bromacil, Bromophos, Bromopropylate, Butafenacil, Chlorbenside, Chlorfenson, Chlorobenzilate, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Cinidon-ethyl, cis-Chlorden, Clomazone, Cyfluthrin, Cyhalofop-butyl, Cyprodinil, Deltamethrin, Diazinon, Dichlofenthion, Diclobutrazol, Diclofop-methyl, Dicofol, Diflufenican, Epoxiconazole, Esfenvalerate, Ethalfluralin, Ethion, Ethofumesate, Ethoprophos, Etrimfos, Fenarimol, Fenchlorphos, Fenitrothion, Fluopyram, Fluquinconazole, Flutolanil, Fluvalinate, gamma-BHC (Lindane), Heptachlor, Hexachlorobenzene, Isofenphos-methyl, Jodfenphos, Kresoxim-methyl, Metalaxyl, Methacrifos, Metolachlor, o,p'-DDD, o,p'-DDT, Oxadiazon, p,p'-DDD, p,p'-DDE, p,p'-DDT, Pendimethalin, Pentachloroaniline, Phenthoate, Pirimicarb, Procymidone, Profenofos, Propachlor, Prothiofos, Pyridaben, Quinoxyfen, Spirodiclofen, Sulfotep, Tebufenpyrad, Terbutryn, Tetrachlorvinphos, Tetradifon, Tolylfluanid, trans-Chlordane, Tri-allate, Trifluralin, Vinclozolin, Zoxamide.	In house residue method by air chromatography GC-MS/MS PESTICIDES Lab-code: XI-82-6
16. Soil	Determination of pesticide residues: Acetamiprid, Alachlor, Azoxystrobin, Carbaryl, Carbofuran, Chloridazon, Cycloxydim, Cyproconazole, Dimethomorph, Fenoxaprop-P-ethyl, Fipronil, Fenoxycarb, Fluaziphos-P-butyl, Flufenacet, Flufenoxuron, Fluometuron, Imidacloprid, Indoxacarb, Isoxaflutole, Linuron, Lufenuron, Metalaxyl +M, Methiocarb, Metolachlor, Monolinuron, Myclobutanil, Propachlor, Quizalofop-ethyl, Propyzamid, Tebufenozide, Terbuthylazine, Thiodicarb, Thiophanate-methyl, Triadimenol, Trifloxystrobin	In house residue method by liquid chromatography LC-MS/MS Lab-code: XI-19

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
17. Baby food	Determination of 169 pesticide residues: Acephate, Acetamiprid, Aclonifen, Alachlor, Aldicarb sulfoxide, Aldicarb, Atrazin, Azimsulfuron, Azinphos-Ethyl, Azinphos-methyl, Azoxystrobine, Benalaxyl, Benthiavalicarb, Bitertanol, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Cadusafos, Carbaryl, Carbendazim, Carbofuran, Carbosulfan, Carboxim, Chinomethionate, Chlorfenviphos, Chloridazon, Chlorpropham, Chlorpyriphos-Ethyl, Chlorpyriphos-Methyl, Clethodim, Clofentezin, Clothianidin, Coumaphos, Cyazofamid, Cycloxidim, Cyhalofop-butyl, Cymoxanil, Cyproconazole, Cyprodinil, Demeton-S-methyl sulfon, Demeton-S-methyl sulfoxide, Demeton-S-methyl, Diazinon, Difenoconazole, Dimethomorph, Diniconazol, Diphenylamin, Disulfoton, Dithiofencarb, Diuron, Emamectin, Epoxiconazole, Ethiofencarb, Ethion, Ethoprophos, Ethoxyquin, Etoxazole, Etridiazole, Etrimphos, Fenamidone, Fenamiphos, Fenarimol, Fenbuconazole, Fenhexamid, Fenoxaprop-P-ethyl, Fenoxycarb, Fenpyroximate, Fipronil, Fluaziphop-P-butyl, Flucytrinate, Flufenacet, Flufenoxuron, Fluometuron, Fluquinconazole, Flusilazole, Flutriafol, Forchlorfenuron, Formetanate, Fosthiazate, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Iprovalicarb, Isofenphos, Isofenphos-methyl, Isoxaflutole, Lenacil, Linuron, Lufenuron, Malaoxon, Malathion, Mandipropamid, Mecarbam Mepanipyrim Mepronil Metalaxyl+M, Metazachlor, Methidathion, Methiocarb, Methomyl, Methoxyfenozide, Metolachlor, Metrafenone, Metribuzine, Mevinphos, Molinate, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Nuarimol, Omethoate, Oxadixyl, Oxamyl, Oxydemeton methyl, Paclobutrazole, Penconazole, Pencycuron, Pendimethaline, Penoxsulam, Phenmedipham, Phenthoate, Phosalone, Phosphamidon, Piperonyl butoxide, Pirimicarb, Pirimiphos Ethyl, Pirimiphos Methyl, Prochloraz, Procymidon, Profenofos, Propachlor, Propamocarb, Propaquazaphop, Propargite, Propiconazole, Propoxur, Propyzamid, Proquinazid, Prosulfocarb, Pyraclostrobin, Pyrazophos, Pyridaben, Pyriproxyfen, Quinalphos, Quinoxyfen, Quizalofos ethyl, Rotenone, Sethoxydim, Simazin, Spiridiclofen, Spiromesifen, Tebuconazole, Tebufenozid, Tebufenpyrad, Temephos, Terbufos, Terbumeton, Terbuthylazine, Tetraconazole, Tetramethrine, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb, Thiophanate-methyl, Tolclofos methyl, Tolyfluanid, Triadimefon, Triadimenol, Triazophos, Trichlorfon, Tricyclazole, Trifloxystrobin, Triflumizol, Zoxamid	In house residue method by liquid chromatography LC-MS/MS Lab-code: XI-12

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
18. Tobacco	Determination of 117 pesticide residues: Alachlor, Aldrin, alpha-BHC, Benfluralin, Bifenox, Bixafen , Boscalid, Bromocyclen, Bromophos, Bromophos-ethyl, Bromopropylate, Butafenacil, Butralin, Carbophenothion, Carbosulfan, Chlorantraniliprole, Chlorbenside, Chlorobenzilate, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthal-dimethyl, Coumaphos, Cyclanilide, Cyflufenamid, Cyprodinil, Demeton-S-methyl, Diazinon, Dichlofenthion, Diclobutrazol, Diclofop-methyl, Dicofol, Dieldrin, Diethofencarb, Diflufenican, Dimoxystrobin , Diniconazole, Dinoseb, Dioxathion, Disulfoton, Disulfoton sulfone, Disulfotone sulfoxide, Ditalimfos, Dodine, Emamectin B1a, Endosulfan sulfate, Endrin, Endrin keto, Epoxiconazole, Ethametsulfuron, Etofenprox, Etridiazole, Fenamiphos, Fenarimol, Fenbuconazole, Fenchlorphos, Fenitrothion, Fenpropidin, Fenpyramazine, Fipronil, Fluazifop-P-butyl, Fluchloralin, Fludioxonil, Flufenacet, Fluotrimazole, Fluquinconazole, Flutriafol, Folpet, Furathiocarb, Heptachlor, Indoxacarb, Jodfenphos, Kresoxim-methyl, Mecarbam, Meptyldinocap, Metazachlor, Metolachlor, Myclobutanil, Nitrothal-isopropyl, o,p'-DDD, p,p'-DDD, p,p'-DDE, Parathion, Parathion-methyl, Penconazole, Pentachloroaniline, Phenthoate, Picolinafen, Pirimiphos Ethyl, Pirimiphos-methyl, Profenofos, Prometryn, Propaquizafop, Propaquizafop, Propiconazole, Pyrazophos, Pyrimethanil, Pyrifenox, Quinoxyfen, Quintozene, Spirodiclofen, Spirotetramate, Sulfotep, Tebuconazole, Tebufenpyrad, Teflubenzuron, Terbutryn, Tetrachlorvinphos, Tetradifon, Tolclofos-methyl, trans-Chlordane, Tri-allate, Triazophos, Trifloxystrobin, Triflumizole, Trifluralin, Vinclozolin, Zoxamide.	In house residue method by air and liquid chromatography GC-MS/MS and LC-MS/MS PESTICIDES according to CORESTA Lab-code: XI-82-5
19. Cereals and Dried Fruits (grape, figs etc)	Ochratoxin A	In house method HPLC-RF Lab-code: XI-22
20. Foods and feeds	Determination of zearalenone (ZON)	In house method LC-MS/MS Lab-code: XI-24
22. cereals, cereal based feed	Determination of aflatoxins B1, B2, G1, G2	In house method LC-MS/MS Lab code: XI-27
23. Milk and Dairy products	Determination of Aflatoxin M1	In house method LC-MS/MS Lab code: XI-28
24. Honey	Determination of HMF (HydroxyMethylFurfural)	In house method UV-VIS Lab code: XT-21
	Determination of diastase index and diastase activity (according to Schade)	In house method UV-VIS Lab code: XT-54

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
	Determination of sugars	In house method HPLC-RID Lab code: XI-32
	Determination of moisture	In house method Refractometric Lab code: XI-94
	Determination of conductivity	In house method Lab code: XI-95
	Determination of pH and acidity	In house method Lab code: XI-96
25. Food (wines, meat products, jams, etc)	Determination of synthetic dyes: E 102. Tartrazine (19140) E 110. Sunset Yellow (15985) E 122. Azorubine/Carmoisin (14720) E 123. Amaranth (16185) E 124. Ponseau 4R (16255) E 127. Erythrosine B (45430). E 128. Red 2G (18050) E 129. Allura Red AC (16035)	In house HPLC/DAD method Lab-code: XI-71
26.Potable, underground and Surface water	Determination of PCBs and PCTs: PCB #28 (2,4,4- trichlorobiphenyl) PCB #52 (2,2,5,5-tetrachlorobiphenyl) PCB #10 (2,2,4,5,5-pentachlorobiphenyl) PCB #138 (2,2,3,4,4,5-hexachlorobiphenyl) PCB #153 (2,2,4,4,5,5, -hexachlorobiphenyl) PCB #180 (2,2,3,4,4,5,5-heptachlorobiphenyl) PCT 02 (3.4,4"-trichloro-m-terphenyl) PCT03 (3,3",5,5"-tetrachloro-p-terphenyl)	In house method GC-MS/MS Lab code: XI-41
27.Potable, underground and Surface water	Determination of acrylamide in water	In house method LC-MS/MS Lab code: XI-42*
28. Potable, underground and Surface water	Determination Benzo(a)pyrene in water	In house method HPLC-RF Lab code: XI-46*
	Determination of PAHs in water: - benzo(b)fluoranthene - benzo(k)fluoranthene - benzo(ghi)perylene - indeno(1,2,3-cd) pyrene	In house method HPLC-RF Lab code: XI-46 *

Tested materials/products	Types of test/Properties	Applied Methods/Techniques
29. Potable, underground and Surface water	Determination of epichlorydrin	In house method LCMSMS Lab code: XI-52*
30. Potable, underground and Surface water	Determination of totan Cyanides	In house photometric method Merck Spectroquant 1.09701 Lab code: XN-17*
	Sensory Testing	
1. Potable, underground and Surface water	Sensory Odor Testing (TON)	In house method based on Apha Standard Methods, 22nd version 2160-2150/2170 Lab code: XN-43*
	Sensory Flavour Testing (FTN)	In house method based on Apha Standard Methods, 22nd version 2160-2150/2170 Lab code: XN-42*
	Sampling	
1. Potable, surface, underground and sea-coast water	Water sampling for chemical and microbiological testing	ISO 19458:2006 ISO 5667-1:2006 ISO 5667-3:2012 ISO 5667-4:1987 ISO 5667-5:2006 ISO 5667-6:2014 ISO 5667-9:1992 ISO 5667-11:2009 ISO 5667-14:2016 Lab code: Δ-01

(*) Methods marked with an asterisk have been assessed and conform to the performance criteria described in the Ministerial Decision αριθμ. Δ1(δ)/ΓΠ οικ.27829/2023 (ΦΕΚ 3525/Β` 25.5.2023) regarding the "quality of water for human consumption".

Site of assessement: Permanent Laboratory premises, Asimakopoulou 69, Kato Neochoropoulo, Ioannina, Greece
Approved signatory: Eva Bazaka

This Scope of Accreditation replaces the previous one dated 01.09.2025.
The Accreditation Certificate No.**1079**-6, to ELOT EN ISO/IEC 17025:2017, is valid until 22.02.2030

Athens 30.01.2026

Evangelos Apostolos Konstantinou
CEO of ESYD