Hellenic Accreditation System

Annex F1/3 to Certificate No. **1259**-2

SCOPE of ACCREDITATION

of the
Testing Laboratory

Aristotle University of Thessaloniki (AUTH),
School of Chemistry
Environmental Pollution Control Laboratory (EPCL)
Center for Interdisciplinary Research and Innovation (CIRI)

Tested materials / products	Types of test / Properties to be measured	Tested materials / products
Chemical Tests		
1. Water (potable, surface water)	1. Determination of pH	In-house method based on 4500-H, B (APHA, Standard Methods 24rd Ed. 2023 (*) MD-01≠pH
	2. Determination of Conductivity	In-house method based on 2510, B (APHA, Standard Methods 24rd Ed. 2023 (*) MD-2≠Conductivity
2. Water potable, surface (including sea water) and ground water (intended or not for human consumption) (Based on SANTE 12682/2019 and ESYD G-FYTOPROST /01/02/20-10-2016)	Determination of pesticides and emerging contaminants (pharmaceuticals): Acetaminophen, Acetamiprid, Acetochlor, Acibenzolar-S-methyl, Alachlor, Aldicarb, Aldicarb-sulfone, Allethrin, Allidochlor, Ametryn, Aminocarb, Amitraz, Atenolol, Atrazine, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benzoximate, Bitertanol, Boscalid, Bromfenvinphos-ethyl, Bromfenvinphos-methyl, cis-Bromuconazole, trans-Bromuconazole, Bupirimate, Buprofezin, Bupropion, Butafenacil, Butocarboxim, Butoxycarboxim, Cafeine, Carbamazepine, Carbaryl, Carbendazim, Carbetamide, Carbofuran, 3OH-Carbofuran, Carbophenothion, Carboxin, Carfentrazone-ethyl,	*In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition MD-03≠SPE-Orbitrap LC-MS/MS

Tested materials / products	Types of test / Properties to be measured	Tested materials / products
2. Water potable, surface (including sea water) and ground water (intended or not for human consumption) (Based on SANTE 12682/2019 and ESYD G-FYTOPROST /01/02/20-10-2016) (continued)	Chlorantraniliprole, Chlorfenapyr, B-Chlorfenvinphos, Chlorfluazuron, Chloroxuron, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthiophos, Chlortoluron, Clethodim, Clomazone, Clothianidin, Coumaphos, Cyazofamid, Cycloate, Cycluron, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Desmedipham, Diallate, Diazinon, Diclobutrazol, Diclofenac, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethachlor, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dinotefuran, Dioxacarb, Diphenamid, Diphenylamine, Diuron, Duloxetine, Edifenphos, Emamectin B1a, EPN, Epoxiconazole, Eprinomectin, Erythromycine,	*In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition MD-03≠SPE-Orbitrap LC-MS/MS (continued)
	Etaconazol, Ethion, Ethiprole, Ethirimol, Ethofumesate, Etoxazole, Fenamidone, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenoxycarb, Fenpropimorph, Fenpyroximate, Fenthion, Fenuron, Flonicamid, Fluazifop-P-butyl, Fluconazole, Flufenacet, Fluometuron, Fluoxastrobin, Fluridone, Flusilazole, Flutolanil, Flutriafol, Fonofos, Forchlorfenuron, Fuberidazole, Furalaxyl, Furathiocarb, Glibenclamide, Glimepiride, Halofenozide, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Ipconazole, Iprovalicarb, Irbesartan, Isazofos, Isocarbophos, Isoprocarb, Isopropalin, Isoproturon, Ketoprofen, Kresoxim-methyl, Lenacil, Levodopa, Lincomycin, Linezolid, Linuron, Losartan, Lufenuron, Malathion, Mandipropamid, Mefenacet, Mepanipyrim, Mepronil, Mesotrione, Metaflumizone, Metalaxyl, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methiocarb, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metribuzin, Mevinphos, Mexacarbate, Monocrotophos, Monolinuron, Moxifloxacin, Myclobutanil, Neburon, Nitenpyram, Nitralin, Norflurazon, Novaluron, Nuarimol, Olanzapine,Oxadiazon, Oxadixyl, Oxamyl, Paclobutrazol, Parathion, Penconazole, Pencycuron, Pendimethalin, Phenmedipham, Phorate, Phosalone, Picoxystrobin, Piperonyl-butoxide, Pirimicarb, Pirimiphos-ethyl, Pirimiphos-methyl, Pretilachlor, Prochloraz, Prodiamine, Profenofos, Progesterone, Prometon, Prometryn, Propachlor, Propamocarb, Propanil, Propargite, Propham, Propiconazole, Propisochlor, Propoxur, Propranolol, Propyzamide, Pymetrozine, Pyracarbolid, Pyraclofos, Pyraclostrobin, Pyrazophos, Pyridaben, Pyridaphenthion,	
	Pyrimethanil, Quinalphos, Quinoxyfen, Risperidone, Rotenone, Secbumeton, Sertraline, Siduron, Simetryn, Spinosad A, Spirodiclofen, Spirotetramat, Spiroxamine, Sulfadiazine,	

Tested materials / products	Types of test / Properties to be measured	Tested materials / products
2. Water potable, surface (including sea water) and ground water (intended or not for human consumption) (Based on SANTE 12682/2019 and ESYD G-FYTOPROST /01/02/20-10-2016) (continued)	Sulfentrazone, Sulfotep, Sulprofos, Tamoxifen, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Teflubenzuron, Telmisartan, Terbufos, Terbumeton, Terbuthylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Thiacloprid, Thiamethoxam, Thidiazuron, Thiobencarb, Timolol, Tolclofos-methyl, Triadimefon, Triadimenol, Triallate, Triazophos, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Trimethoprim, Triticonazole, Valsartan, Vamidothion, Venlafaxine, Zoxamide	*In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition MD-03≠SPE-Orbitrap LC-MS/MS (continued)
3. Water potable, surface	Determination of per- and polyfluoroalkyl substances (PFAS), (Sum of PFAS ≥20) Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid (PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnDA) Perfluorododecanoic acid (PFDoDA) Perfluorotridecanoic acid (PFTrDA) Perfluorobutane sulfonic acid (L-PFBS) Perfluoropentane sulfonic acid (L-PFPeS) Perfluorohexane sulfonic acid (L-PFHxS) Perfluoroheptane sulfonic acid (L-PFHpS) Perfluorooctane sulfonic acid (L-PFOS) Perfluorononane sulfonic acid (L-PFNS) Perfluorodecane sulfonic acid (L-PFDS) Perfluoroundecane sulfonic acid (L-PFUdS) Perfluorododecane sulfonic acid (L-PFDoS) Perfluorotridecane sulfonic acid (L-PFTrDS)	*In house* method (*) based on ISO 21675, EN 17892 Part B and EPA 537.1 methods Lat. Ed. by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition Κωδικός Μεθόδου MD-05≠SPE-Orbitrap LC-MS/MS
(*) Methods marked with (*) comply with the performance criteria specified in ΚΥΑ Δ1(δ)/ΓΠ οικ. 27829 (ΦΕΚ3525/Β/25-5-2023) concerning the quality of drinking water.		
4. Soils, sediments (Based on SANTE 12682/2019 and ESYD G-FYTOPROST/01/02/ 20-10-2016)	Determination of pesticides and emerging contaminants (pharmaceuticals): Acetaminophen, Acetamiprid, Acetochlor, Acibenzolar-S-methyl, Alachlor, Aldicarb, Aldicarb-sulfone, Allethrin, Allidochlor, Ametryn, Amitraz, Atrazine, Azinphos-ethyl, Azoxystrobin, Benalaxyl, Bendiocarb, Trifluralin, Benzoximate, Bitertanol, Boscalid, Bromfenvinphos-ethyl, Bromfenvinphos-methyl, cis-Bromuconazole, trans-Bromuconazole, Bupirimate, Buprofezin, Bupropion, Butafenacil, Butocarboxim, Butoxycarboxim, Cafeine, Carbamazepine, Carbaryl, Carbendazim, Carbetamide, Carbofuran, 3OH-Carbofuran, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorfenapyr, B-Chlorfenvinphos, Chlorfluazuron, Chloroxuron,	*In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition based on QuEChERS EN 15 662 MD-04≠ QuEChERS -Orbitrap LC-MS/MS (continued) *In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full

Tested materials / products	Types of test / Properties to be measured	Tested materials / products
4. Soils, sediments (Based on SANTE 12682/2019 and ESYD G-FYTOPROST/01/02/ 20-10-2016) (continued)	Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthiophos,	Scan MS or/and data dependent MS2 (ddMS2) acquisition based on QuEChERS EN 15 662 MD-04≠ QuEChERS -Orbitrap LC-MS/MS (continued)
	Chlorantraniliprole, Chlorfenapyr, B-Chlorfenvinphos, Chlorfluazuron, Chloroxuron, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthiophos, Chlortoluron, Clethodim, Clofentezine, Clomazone, Clothianidin, Coumaphos, Cyazofamid, Cycloate, Cycluron, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Diallate, Diazinon, Diclobutrazol, Diclofenac, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethachlor, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dinotefuran, Dioxacarb, Diphenamid, Diphenylamine, Diuron, Duloxetine, Edifenphos, Emamectin B1a, Emamectin Benzoate, EPN, Epoxiconazole, Etaconazol, Ethiofencarb, Ethion, Ethiprole, Ethirimol, Ethofumesate, Etoxazole, Fenamidone, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid,	
	Fenobucarb, Fenoxycarb, Fenpropathrin, Fenpropimorph, Fenpyroximate, Fenthion, Fenuron, Flonicamid, Fluazifop-P-butyl, Fluconazole, Fludioxonil, Flufenacet, Fluometuron, Fluoxastrobin, Fluquinconazole, Fluridone, Flusilazole, Flutolanil, Flutriafol, Fluvoxamine, Fonofos, Forchlorfenuron, Fuberidazole, Furalaxyl, Furathiocarb, Halofenozide, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Ipconazole, Iprodione, Iprovalicarb, Irbesartan, Isazofos, Isocarbophos, Isoprocarb, Isopropalin, Isoproturon, Kresoxim-methyl, Lenacil, Linezolid, Linuron,	
	Lufenuron, Malathion, Mandipropamid, Mefenacet, Mepanipyrim, Mepronil, Metaflumizone, Metalaxyl, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metribuzin, Mevinphos, Mexacarbate, Monocrotophos, Monolinuron, Myclobutanil, Neburon, Nitenpyram, Nitralin, Norflurazon, Novaluron, Nuarimol, Oxadiazon, Oxadixyl, Oxamyl, Oxyfluorfen, Paclobutrazol, Parathion, Pebulate, Penconazole, Pencycuron, Pendimethalin, Phorate, Phosalone, Picoxystrobin, Piperonyl-butoxide, Pirimicarb, Pirimiphos-ethyl, Pirimiphos-methyl, Pretilachlor, Prochloraz, Prodiamine, Profenofos, Progesterone, Prometon, Prometryn, Propachlor, Propanil, Propargite, Propham, Propiconazole, Propisochlor, Propranolol,	*In-house* multiresidue method by LC-HRMS (Orbitrap LC-MS/MS) in Full Scan MS or/and data dependent MS2 (ddMS2) acquisition based on

Tested materials / products	Types of test / Properties to be measured	Tested materials / products
4. Soils, sediments (Based on SANTE 12682/2019 and ESYD G-FYTOPROST/01/02/ 20-10-2016) (continued)	Propyzamide, Pyracarbolid, Pyraclofos, Pyraclostrobin, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Rotenone, Secbumeton, Sertraline, Siduron, Simetryn, Spinosad A, Spirodiclofen, Spirotetramat, Spiroxamine, Sulfadiazine, Sulfentrazone, Sulfotep, Sulprofos, Tamoxifen,Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Teflubenzuron, Terbacil, Terbufos, Terbumeton, Terbuthylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrin, Thiabendazole, Thiacloprid, Thiamethoxam, Thidiazuron, Thiobencarb, Thiophanate-methyl, Timolol, Tolclofos-methyl, Triadimefon, Triadimenol, Triallate, Triazophos, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Trimethoprim, Triticonazole, Vamidothion, Venlafaxine, Zoxamide	QuEChERS EN 15 662 MD-04≠ QuEChERS -Orbitrap LC-MS/MS (continued)

Site of assessment: Laboratory permanent premises –

- **School of Chemistry AUTH, University Campus, Postal Code 54124, Thessaloniki, Greece**
- **Center for Interdisciplinary Research and Innovation (CIRI) AUTH, Balkan Center, Building A, 100th km of Thessaloniki – Thermi road, P.O. Box 8318, Postal Code 57001, Thessaloniki, Greece**

Approved signatories: **Dimitra Lampropoulou**

This scope of Accreditation replaces the previous one, dated 02.06.2025.
The Accreditation Certificate No. **1259**-2 to ELOT EN ISO/IEC 17025:2017, has been renewed until 03.06.2030.

Athens, 28th of February 2025

Konstantinou Evangelos Apostolos
CEO of ESYD