

Hellenic Accreditation System



Annex F1/A28 to the Certificate No. **102-5**

SCOPE of ACCREDITATION
of
the Testing Laboratory
of
EUROFINS Athens Analysis Laboratories S.A.

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
Chemical Tests		
1. Water (water for human consumption, pool water*, surface water, drilling water), waste and wastewater ⁽¹⁾ *Parameters 2, 5, 16 and 33	1. Measurement of electric conductivity (#) (°)	ISO 7888:1985 In house method (OE-7.0-143) based on ISO 7888:1985 by discrete analysis system
	2. Determination of pH (#) (°)	ISO 10523:2008 In house method (OE-7.0-143) based on ISO 10523:2008 by discrete analysis system
	3. Determination of turbidity (#) (°)	ISO 7027-1:2016
	4. Determination of chlorides (#) (°)	ISO 9297:1989
	5. Determination of total and composite alkalinity, carbonate (CO ₃ ²⁻) and bicarbonate (HCO ₃ ³⁻) ions and carbonate hardness	ISO 9963-1:1994 In house method (OE-7.0-143) based on ISO/TS 15923-2:2017 by discrete analysis system
	6. Determination of nitrate (#) (°)	LCK 339
	7. Determination of nitrite (#) (°)	ISO 6777:1984
	8. Determination of of Chemical Oxygen Demand (COD)	ISO 15705:2002
	9. Determination of total and free phosphorus (#) (°)	In house method (OE-7.0-62) based on ISO 6878:2004
	10. Determination of Kjeldahl nitrogen	ISO 5663:1984

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
1. Water (water for human consumption, pool water*, surface water, drilling water), waste and wastewater ⁽¹⁾ *Parameters 2, 5, 16 and 33 (continued)	11. Determination of BOD	In house method (OE-7.0-41) based on APHA 5210D, 23 rd Ed.
	12. Determination of suspended solids	ELOT EN 872:2005
	13. Determination of aluminum (#) (°)	In house method (OE-7.0-67) based on ISO 10566:1994
	14. Determination of boron (#) (°)	In house method (OE-7.0-68) based on ISO 9390:1990
	15. Determination of free and total cyanide (#) (°)	In house method (OE-7.0-69) based on APHA 4500-CN, 23 rd Ed. and ISO 6730/2:1984
		In house method (OE-7.0-143) based on APHA 4500-CN, 23 rd Ed., by discrete analysis system with photometric detection
	16. Determination of free and total chlorine	In house method (OE-7.0-70) based on ISO 7393-2:1985
	17. Determination of hexavalent chromium (#)	In house method (OE-7.0-71) based on APHA 3500-Cr B, 23 rd Ed.
	18. Determination of sulfate (#) (°)	APHA 4500-SO42- E, 23 rd Ed.
	19. Determination of iron (#) (°)	In house method (OE-7.0-74) based on APHA 3500-Fe B, 23 rd Ed.
	20. Determination of fluoride (#) (°)	In house method (OE-7.0-75) based on APHA 4500-F- D, 23 rd Ed.
	21. Determination of colour (#) (°)	ELOT EN ISO 7887
		In house method (OE-7.0-143) based on ELOT EN ISO 7887, by discrete analysis system with photometric detection
	22. Determination of Total Carbon (TC) and Total Organic Carbon (TOC) (#) (°)	APHA 5310-B, 23 rd Ed.
	23. Determination of Oil and Grease	In house method (OE-7.0-90) based on APHA 5520 B and on APHA 5520 G, 23 rd Ed.
	24. Determination of silicates	Hach-Lange Method 8185
	25. Determination of Anionic Surfactants	In house method (OE-7.0-91) based on APHA 5540 C, 23 rd Ed.
26. Determination of Cationic Surfactants	LCK 331	
27. Determination of Nonionic Surfactants	LCK 333	

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
1. Water (water for human consumption, pool water*, surface water, drilling water), waste and wastewater ⁽¹⁾ *Parameters 2, 5, 16 and 33 (continued)	28. Determination of Total Solids (Dry Residue), Total Dissolved Solids, Volatile Solids (total, dissolved and suspended) and Fixed Solids (total, dissolved and suspended)	In house method (OE-7.0-98) based on APHA 2540 BC, D&E, 23 rd Ed.
	29. Determination of Formaldehyde	LCK 425
	30. Determination of Sulfite	In house method (OE-7.0-157) based on APHA 4500-SO32- B, 23 rd Ed.
	31. Determination of Ammonium (#) (°)	ISO 7150-1:1984&ISO 5664:1984
	32. Determination of Total Nitrogen	Calculated by the sum of nitrate nitrogen, nitrite nitrogen and Kjeldahl nitrogen
		In house method (OE-7.0-153) based on ISO 11905-1:1997, LCK 238 and LCK 138
		In house method (OE-7.0-227) based on ISO 13878:1998 for wet drains and compost waste
	33. Determination of Cyanuric Acid	In house method (OE-7.0-158) based on HACH Method 8139
	34. Determination of sulfides (S ²⁻) and hydrogen sulfide (H ₂ S)	LCK 653
	35. Determination of phenols (phenol index)	LCK 345
	36. Determination of ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate by discrete analysis system with photometric detection (#) (°)	ISO 15923-1:2013
	37. Determination of hexavalent chromium, fluoride, and hardness by discrete analysis system with photometric detection (#) (°)	ISO/TS 15923-2:2017
	38. Determination of dissolved oxygen	ISO 17289:2014
39. Determination of Volatile Organic Compounds (VOCs) (#) (°): Chloroform, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Tetrachloromethane, Benzene, 1,2-Dichloroethane, Trichloroethene, 1,2-Dichloropropane, Bromodichloromethane, Trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, Dibromochloromethane, m-Xylene, p-Xylene, o-Xylene, Bromoform (Tribromomethane), 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, Epichlorhydrine, Vinylchloride	In house method (OE-7.0-140) based on ISO 17943:2016 and ISO 20595:2018.	
40. Determination of Bromates, Chlorates, Perchlorates, Chlorites (#) (°)	In house method (OE-7.0-144) based on Environ. Sci. Technol. 2005 15;39 (12):4586-93 with LC-MS/MS	
41. Determination of Adsorbable Organic Halogens (AOX)	LCK 390	

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
1. Water (water for human consumption, pool water*, surface water, drilling water), waste and wastewater ⁽¹⁾ *Parameters 2, 5, 16 and 33 (continued)	42. Determination of settleable solids (Imhoff)	APHA 2540 F, 23 rd Ed
	43. Determination of Sodium Adsorption Ratio (SAR), Langelier index and Ryznar index	In house method (OE-7.0-191) based on U.S. Salinity Laboratory, Agriculture Handbook No. 60, 1954 ASTM- D3739-19 APHA 2330, 23 rd Ed.
	44. Determination of elements (flexible scope) (#) (§) The elements are specified in detail in the List of Accredited Activities Flexible Field of the Laboratory (Document E-5.2, according to ESYD/G-FYTOPROST 2016, Link: LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE)	In house method (OE-7.0-93) with ICP-MS, based on ISO 17294-1:2004 and on ISO 17294-2:2016
	The flexibility that applies covers the following categories. Flexibility in relation to: <ul style="list-style-type: none"> • adding new elements to existing matrices • the integration of new matrices in existing methods • the extension of methods to a new subcategory of matrices • the extension/modification of existing methods (technique, scope of determination, quantification limit) Accredited Methods are described in detail on the Laboratory site. LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE	
2. Water (water for human consumption, surface water, groundwater)	1. Determination of calcium	ELOT 169:1978
	2. Determination of total hardness	ELOT 170:1980
	3. Determination of permanent hardness	Calculated by the total and carbonate hardness
	4. Determination of 184 pesticide residues (#) (§): (Acetochlor, Acrinathrin, Aldrin, Atrazine, AzinphosEthyl, AzinphosMethyl, Benalaxyl, Benfluralin, Bifenox, Bifenthrin, Biphenyl, Bitertanol, Bromocyclen, BromophosEthyl, BromophosMethyl, Bromopropylate, Bromuconazole, Buprofezin, Butafenacil, Cadusafos, Carbaryl, Carbofuran, Carbofenothion, Carbosulfan, Chlordanealpha (cis), Chlordanegamma (trans), Chlorfenapyr, Chlorfenson, Chlorfenviphos, Chlorobenzilate, Chloropropylate, Chlorothalonil, ChlorpyrifosEthyl, ChlorpyrifosMethyl, Chlorthalidimethyl/DCPA, ChlorthionMethyl, Clodinafop-propargyl, Cloquintocetmexyl, Coumaphos, Cyfluthrin (4p.), Cyfluthrin-beta, Cyhalothrin-λ, Cypermethrin (4p.), Cypermethrin-α, Cyproconazol, Cyprodinil, DDD-pp', DDE-pp', DDT-op', DDT-pp', Deltamethrin, Diazinon, Dichlobenil, Dichlofenthion, Dichlofluanid, Dichloran, Dichlorvos, Diclobutrazol, Dicofol, Dieltrin, Difenconazole, Diflufenican, Dimethenamid, Diniconazol, Diphenamid, Endosulfanalalpha, Endosulfanbeta, Endosulfanlactone, Endosulfansulfate, Endrin, Epoxiconazole, Esfenvalerate, Etaconazol, Ethalfuralin, Ethion, Ethoprophos, Etridiazol, Etrimfos, Famphur, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazol, Fenchlorphos, Fenitrothion, Fenoxycarb, Fenproparthrin, Fenpropidin, Fenpropimorph, Fenson, Fenvalerate, Fluazifop-P-butyl, Fluchloralin, Flucythrinate, Fludioxonil, Flufenoxuron, Fluquinconazole, Flusilazole, Fluvalinate-tau, Folpet, Furalaxyl, HCHalpha, HCHbeta, HCHdelta, HCHgamma (Lindane), Heptachlor, HeptachlorEpoxideA, HeptachlorEpoxideB, Hexachlorobenzene, Hexaconazole, Iodofenphos, Iprobenphos, Iprodione, Isazophos, Isodrin, Isofenphos, IsofenphosMethyl, Isoprocab, Leptophos, Malathion, Mepronil, Metazachlor, Methidathion, Methoxychlor, Metolachlor, Metribuzin, Mirex, Myclobutanil, Nitrpyrin, Nitrofen, Nitrothalisopropyl, Nuairimol, o-phenylphenol, Oxadiazon, Oxyfluorfen, Paclobutrazol, ParathionEthyl, ParathionMethyl, Penconazole, Pendimethalin, Pentachloroanisole, Permethrin, Perthan, Phenothrin, Phenthoate, Phorate, Phosalone, Phosmet, Picolinafen, Piperonylbutoxide (PBO), PirimiphosEthyl, PirimiphosMethyl, Procymidone, Profenofos, Prometryn, Propargite, Propazine, Propham, Propyzamide, Prothiofos, Pyrazophos, Pyridaben, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxifen, Quintozene, Resmethrin, S421, Simazine, Spirodiclofen, Tebuconazole, Tecnazene, Tefluthrin, Terbutylazine, Tetrachlorvinphos, Tetraconazole, Tetradifon, Tetramethrin, Tetrasul, Thiobencarb, TolclofosMethyl, Tolyfluanid, Transfluthrin, Triadimefon, Triazophos, Trichloronate, Trifluralin, Triticonazole, Uniconazole, Vinclozolin)	In house method (OE-7.0-79) based on APHA 6410B, 23 rd Ed. with GC-MS/MS

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
consumption, surface water, groundwater) (continued)	2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acephate, Acetamidiprid, Aldicarb, AldicarbSulfone, Ametoctradin, Ametryn, Asulam, Atrazine, Azaconazole, Azamethiphos, Azimsulfuron, AzinphosEthyl, AzinphosMethyl, Azoxystrobin, Benalaxyl, Benfuracarb, Bentazone, Benthialvalicarb-isopropyl, Benzoximate, Bispyribac-sodium, Bromacil, Bromoxynil, Bromuconazole 1&2, Bupirimate, Buprofezin, Butafenacil, Butocarboximsulfone, Butocarboximsulfoxide, Cadusafos, Carbaryl, Carbazim, Carbofuran, Carbofuran-3-hydroxy, Carbofuran-3-keto, Carboxin, CarfentrazoneEthyl, Carpropamid, Chlorantraniliprole, Chlorbromuron, Chlorfenvinphos 1&2, Chloridazon, Chloroxuron, ChlorpyrifosEthyl, Chlorsulfuron, Chlortoluron, Clethodim, Climbazol, Clodinafop-propargyl, Clomazone, Cloquintocet-mexyl, CloransulamMethyl, Clothianidin, Coumaphos, Crimidine, Cycloate, Cycloxydim, Cyproconazol 1&2, Cyprodinil, Demeton-S-methyl, Demeton-S-methylsulfone, Desmethyl-formamido-pirimicarb, Desmethyl-pirimicarb, Desmetryn, Diazinon, Dichlorfenthion, Diclobutrazol, Dicrotophos, Diethofencarb, Difenoconazol 1&2, Diflubenzuron, Dimethenamid, Dimethoate, Dimethomorph 1&2, Dimoxystrobin, Diphenamid, Dipropetryn, Diuron, DMST, Dodemorph, Epoxiconazol, Etaconazole, Ethiofencarb, Ethiofencarbsulfone (NH4+), Ethiofencarbsulfoxide, Ethion, Ethiprole, Ethirimol, Ethoprophos, Etoxazole, Etrifos, Fenamidone, Fenamiphos, Fenamiphossulfone, Fenamiphos-Sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenitrothion, Fenoxaprop-P-ethyl, Fenoxycarb, Fenpropimorph, Fenpyroximate, Fensulfothion, Fenthionoxon, Fenthionsulfoxide, Fipronil, Fipronil-desulfinyl, Fluazifopbutyl, Fluazifop P, Flubendiamide, Fludioxinil, Flufenacet, Fluometuron, Flupicolide, Fluoxastrobin, Flusilazole, Flutolanil, Flutriafol, Forchlorfenuron (CPPU), Formetanate, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Halofenozide, Haloxyfop-2-ethoxyethyl, Heptenophos, Hexazinone, ImazamethabenzMethyl, Imazaquin, Imidachloprid, Ioxynil, Iprobenphos, Iprovalicarb 1&2, Isazofos, Isofenphos, Isoprocarb, Isoprothiolane, Isoproturon, Isoxathion, Lenacil, Linuron, Mecarbam, Mephospholan, Mepronil, Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methamidophos, Methidathion, Methiocarb, Methiocarbsulfoxide, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metoxuron, Metrafenone, Metribuzin, MetsulfuronMethyl, Monocrotophos, Monolinuron, Myclobutanil, Napropamide, Neburon, Nicosulfuron, Nitenpyram, Norflurazon, N-Phenylurea, Ofurace, Omethoate, Oxadixyl, Oxamyl-oxime, Oxycarboxin, OxydemetonMethyl, Paclobutrazol, ParaoxonEthyl, Penconazole, Pencycuron, Penoxsulam, Pethoxamid, Phenthoate, Phosalone, Phosdrin (Mevinphos), Phosmet, Phosphamidon, Phoxim, Picoxystrobin, Pinoxaden, Piperonylbutoxide, Pirimicarb, PirimiphosEthyl, PirimiphosMethyl, Prochloraz, Profoxydim 1, Profoxydim 2, Promecarb, Prometryn, Propachlor, Propamocarb, Propazine, Propiconazole, Propoxur, Propyzamide, Proquinazid, Prosulfocarb, Pymetrozine, Pyraclostrobin, PyraflufenEthyl, Pyrazophos, Pyridaphenthion, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinalphos, Quinoxifen, QuizalofopEthyl, Rimsulfuron, Rotenone, Sethoxydim, Simazine, Simeconazole, Spiroxamine, Sulfentrazone, Sulfotep, Tebufenozide, Tebuthiuron, Tepraloxym, Terbufossulfone, Terbufossulfoxide (NH4+), Terbumeton, Terbutylazine, Terbutryn, Tetraclorvinphos, Tetraconazole, Thiabendazole, Thiachloprid, Thiamethoxam, ThifensulfuronMethyl, Thiobencarb, Thiodicarb, Thiometonsulfone, ThiophanateMethyl, Tralkoxydim, Triadimefon, Triasulfuron, Triazophos, TribenuronMethyl, Tricyclazole, Trifloxystrobin, Triflumizole, Uniconazole, Vamidothion, Vamidothionsulfone, Vamidothionsulfoxide, Zoxamide	In house method (OE-7.0-79) based on APHA 6410B, 23 rd Ed. with LC-MS/MS
	6. Determination of PAHs (#) (5): acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[ghi]perylene, benzo[k]fluoranthene, chrysene, dibenzo[a.h]anthracene, fluoranthene, fluorene, indeno[1.2.3-cd]pyrene, naphthalene, phenanthrene, pyrene	In house method (OE-7.0-80) based on ISO 28540:2011 with GC-MS/MS
	7. Determination of nitrate with ultraviolet Spectrophotometric Screening method (#) (5)	APHA 4500-NO ₃ ⁻ B, 23 rd Ed.
	8. Determination of PCBs (#) (5): PCB 18, PCB 20, PCB 28, PCB 31, PCB 44, PCB 52, PCB 101, PCB 105, PCB 118, PCB 138, PCB 149, PCB 153, PCB 170, PCB 180, PCB 194	In house method (OE-7.0-81) based on 6410B, 23 rd Ed. with GC-MS/MS
	9. Determination of PCTs (#) (5): 2,3,4,5,6-pentachloro-p-terphenyl, 2,3,5,6-tetrachloro-p-terphenyl, 2,4,6-trichloro-p-terphenyl, 2,5-dichloro-p-terphenyl	In house method (OE-7.0-82) based on APHA 6410B, 23 rd Ed with GC-MS/MS
	10. Determination of Hydrocarbons and Mineral oils (Hydrocarbon oil index) (#)	In house method (OE-7.0-83) based on ISO 9377-2:2000 with GC-FID
	11. Determination of Phenols : 2,4,6 Trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2-Nitrophenol, 4-Nitrophenol, 4-chloro-3-methylphenol, Pentachlorophenol, DNOC	In house method (OE-7.0-84) based on APHA 6410B, 23 rd Ed. with GC-MS/MS

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
2. Water (water for human consumption, surfacewater, groundwater) (continued)	12. Determination of Acrylamide (#) (§)	In house method (OE-7.0-86) based on Environmental Agency, UK (2009) with LC-MS/MS
	13. Determination of Permanganate Index (Oxisability) (#) (§)	ELOT EN ISO 8467
		LCK 394
	14. Determination of Chloramine (Monochloramine)	In house method (OE-7.0-154) based on HACH method 10200
	15. Determination of Ozone (O ₃) and substances that discolour indigo pigment	In house method (OE-7.0-155) based on APHA 4500-O ₃ , 23 rd Edition
	16. Determination of Halogen Acids Concentration with LC-MS/MS (§)	In house method (OE-7.0-163) with LC-MS/MS, based on J. Duan, Analytical Methods, 2011, 7, 1667-1673
	17. Determination of Uranium ²³⁴ U, ²³⁵ U κα ²³⁸ U (##)	In house method (OE-7.0-130) based on ISO 17294-2:2016
	18. Determination of Per- and Polyfluoroalkyl Substances (PFAS) (§) Perfluorobutyric 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), Perfluorobutanesulfonic acid (PFBS), Perfluoropentanesulfonic acid (PFPeS), Perfluorohexanesulfonic acid (PFHxS), Perfluoroheptanesulfonic acid (PFHpS), Perfluorooctanesulfonic acid (PFOS), Perfluorononanesulfonic acid (PFNS), Perfluorodecanesulfonic acid (PFDS), Perfluoro-N-undecanesulfonic acid, Perfluorododecanesulfonic acid, Perfluoro-N-tridecanesulfonic acid	In house method (OE-7.0-215) based on ISO 21675
19. Determination of microcystine LR	In house method (OE 7.0-219) with LC-MS/MS	
3. Seawater and Wastewater ⁽¹⁾	Determination of Hydrocarbons and Mineral oils (hydrocarbon oil index)	In house method (OE-7.0-83) based on ISO 9377-2:2000 with GC-FID
4. Seawater and high salinity wastewater	Determination of Chemical Oxygen Demand (COD)	LCK 1814
5. Surface water and Seawater, algae	Determination of chlorophyll A	ISO 10260:1992
6. Water, hemodialysis fluid and ultra-pure hemodialysis fluid for hemodialysis and related therapies	1. Determination of Li, Be, B, Na, Mg, Al, P, K, Ca, Ti, V, Cr, Mn, Co, Fe, Ni, Cu, Zn, As, Se, Sr, Mo, Ag, Cd, Sn, Sb, Ba, Hg, Tl, Pb and U	In house method (OE-7.0-93) based on ISO 17294-1:2004 and on ISO 17294-2:2016
	2. Determination of pH	In house method (OE-7.0-143) based on ISO10523:2008 by discrete analysis system
	3. Determination of Permanganate Index (Oxidisability)	ELOT EN ISO 8467

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	4. Determination of free and total cyanide	In house method (OE-7.0-143) based on APHA 4500-CN, 23 rd Ed., by discrete analysis system with photometric detection
	5. Determination of chlorides	ISO 9297:1989
	6. Determination of fluoride	In house method (OE-7.0-75) based on APHA 4500-F D, 23 rd Ed.
	7. Determination of nitrate	LCK 339
	8. Determination of Ammonium	ISO 7150-1:1984& ISO 5664:1984
	9. Determination of sulfate	APHA 4500-SO ₄ ²⁻ E, 23 rd Ed.
	10. Determination of Chloramine (Monochloramine)	In house method (OE-7.0-154) based on HACH method 10200
7. Foods of plant origin a) Fruits and vegetables with high water content b) Cereals, pulses, nuts c) Foods of plant origin products with high fat content d) Products with high sugar content e) Plant leaves f) Infant and Baby foods	Determination of pesticide residues in a flexible scope of the following categories: Organophosphates, Organochlorinated, Pyrethrinoids, Triazoles, Triazines, Dinitroanilines, Amides, Benzimidazoles, Carbamates, Aryloxy-alkanoic acids, Benzoyl ureas, Strobilurins, Neonicotinoids, Polar, Dithiocarbamates, Phenolic Acids, Phthalimides, Biocides The active substances that are determined, are specified in detail in the List of Accredited Activities Flexible Field of the Laboratory (Document E-5.2, according to ESYD/G-FYTOPROST 2016, Link: LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE)	In house method OE-7.0-56 OE-7.0-135 OE-7.0-136 OE-7.0-141 OE-7.0-142 OE-7.0-162 All the above are based on SANTE/12682/2019 Analytical Techniques LC-MS/MS, GC-MS/MS, GC-MS In house method of Flexible Scope OE-7.2-7
	The flexibility that applies covers the following categories Flexibility in relation to <ul style="list-style-type: none"> • adding new elements to existing matrices • the integration of new matrices in existing methods • the extension of methods to a new subcategory of matrices • the extension / modification of existing methods (technique, scope of determination, quantification limit) Accredited Methods are described in detail on the Laboratory's site.	
8. a) Fruits and vegetables with high water content: [stone fruits, pome fruits, fruiting vegetables, citrus fruits, root-tuber vegetables, stem vegetables, small fruits, pulses vegetables, brassica vegetables, bulb vegetables, leaf vegetables and fresh herbs, miscellaneous], as referred to Regulations EC 396/2005 and EC 187/2006 b) Cereals, pulses, nuts	1. Determination of 459 pesticide residues: 2,3,5-Trimethacarb/3,4,5-Trimethacarb, 2,4-D, 2-Naphthoxy acetic acid, Acephate, Acetamiprid, Acetochlor, Acibenzolar-S-methyl, Aclonifen, Acrinathrin, Alaclor, Aldicarb, Aldicarb sulfone, Allethrin, Ametocradin, Ametryn, Amidosulfuron, Aminocarb, Atrazine, Atrazine-desethyl, Azaconazole, Azadirachtin, Azamethiphos, Azimsulfuron, Azinphos ethyl, Azinphos methyl, Azoxystrobin, Barban, Beflubutamid, Benalaxyl, Bendiocarb, Bensulfuron methyl, Bentazone, Benthialvalicarb-isopropyl, Benzoximate, Bifethrin, Bispyribac-sodium, Bitertanol, Bixafen, Boscalid, Bromacil, Bromoxynil, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butocarboxim, Butocarboxim sulfone, Butocarboxim sulfoxide, Butralin, Buturon, Butylate, Cadusafos, Carbaryl, Carbendazim, Carbetamide, Carbofuran-3-hydroxy, Carbofuran-3-keto, Carboxin, Carboxin, Carfentrazone ethyl, Carpropamid, Chlorantraniliprole, Chlorbromuron, Chlorbufam, Chlorfenson, Chlorfenvinphos, Chlorfluazuron, Chloridazon, Chloroxuron, Chlorpropham, Chlorpyrifos ethyl, Chlorpyrifos methyl, Chlorsulfuron, Chlorthiophos, Chlortoluron, Chromafenozide, Cinidon ethyl, Clethodim, Climbazole, Clodinafop-propargyl, Clomazone, Cloransulam methyl, Cloquintocet mexyl, Clothianidin, Coumaphos, Crimidine, Cyanazine, Cyanofenphos, Cyanophos, Cyazofamid, Cyclanilide, Cycloate, Cycloxydim, Cyflufenamid, Cyhalothrin-lambda, Cymoxanil, Cypermehrin, Cyproconazole, Cyprodinil, DEET, Deltamethrin, Demeton-S-methyl, Demeton-S-methyl sulfone, Demeton-S-methyl sulfoxide, Desmedipham, Desmetryn, Diallylate, Diazinon, Dicamba, Dichlofenthion, Dichlorprop, Diclobutrazol, Diclosulam, Dicrotophos, Diethofencarb, Difenconazole, Diflubenuron, Diflufenican, Dimethachlor, Dimethoate, Dimethomorph,	In house method (OE-7.0-210), based on ELOT EN 15662 and SANTE/12682/2019 LC-TOF-MS

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
<p>8. a) Fruits and vegetables with high water content: [stone fruits, pome fruits, fruiting vegetables, citrus fruits, root-tuber vegetables, stem vegetables, small fruits, pulses vegetables, brassica vegetables, bulb vegetables, leaf vegetables and fresh herbs, miscellaneous], as referred to Regulations EC 396/2005 and EC 187/2006</p> <p>b) Cereals, pulses, nuts</p> <p>(continued)</p>	<p>Dimoxystrobin, Diniconazole, Dinitramine, Dinobuton, Dinoseb, Dinoterb, Dioxacarb, Dioxathion, Diphenamid, Dipropetryn, Disulfoton sulfone, Disulfoton sulfoxide, Disulfoton Diuron, DMF, DMPF, DMST, DNOC, Dodemorph, Emamectin benzoate, EPN, Epoxiconazole, Etaconazole, Ethiofencarb, Ethiofencarb sulfone, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Ethoxysulfuron, Etofenprox, Etoxazole, Etrifmos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenamiphos sulfone, Fenamiphos sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorazol ethyl, Fenchlorphosoxon, Fenhexamid, Fenobucarb, Fenoxaprop, Fenoxycarb, Fenpiclonil, Fenpropathrin, Fenpropimorph, Fenpyroximate, Fensulfothion, Fensulfothionoxon sulfone, Fensulfothion sulfone, Fenthion, Fenthion oxon, Fenthion oxon sulfone, Fenthion oxon sulfoxide, Fenthion sulfone, Fenthion sulfoxide, Fenuron, Fenvalerate, Fipronil, Fipronil desulfinyl, Fipronil sulfone, Flazasulfuron, Flonicamid, Fluzafop butyl, Fluzafop P, Flubendiamide, Fludioxinil, Flufenacet, Flufenoxuron, Flumetralin, Flumioxazine, Fluometuron, Fluopicolide, Fluopyram, Fluotrimazole, Fluoxastrobin, Flupyradifurone, Fluqiconazole, Flurochloridone, Fluroxypry, Fluroxyprymethyl, Flurprimidol, Flurtamone, Flusilazole, Fluthiacet methyl, Flutolanil, Flutriaol, Flusalinate-tau, Fluxapyroxad, Fomesafen, Fonofos, Foramsulfuron, Forchlorfenuron (CPPU), Formetanate, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Gibberelic Acid, Halfenprox, Halofenozide, Halosulfuron methyl, Haloxyfop, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz methyl, Imazamox, Imazosulfuron, Imibenconazole, Imidacloprid, Indoxacarb, Iodosulfuron methyl sodium, Ioxynil, Ipconazole, Iprobenphos, Iprovalicarb, Isazofos, Isocarbophos, Isofenphos, Isofenphos methyl, Isoprocarb, Isopropalin, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxaflutole, Isoxathion, Kresoxim methyl, Lactofen, Lenacil, Linuron, Lufenuron, Malaaxon, Malathion, Mandipropamid, MCPA, Mecarbam, Mecoprop P, Mefenacet, Mefenpyr diethyl, Mepaniprym, Mephospholan, Mepronil, Metaflumizone, Metalaxyl/Metalaxyl M, Metazachlor, Metconazole, Methabenzthiazuron, Methamidophos, Methidathion, Methiocarb, Methiocarb sulfone, Methiocarb sulfoxide, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metribuzin, Metsulfuron methyl, Molinate, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Napropamide, Neburon, Nitenpyram, Nitralin, Norflurazon, Novaluron, N-Phenylurea, Nuarimol, Ofurace, Omethoate, Oryzalin, Oxadiargyl, Oxadiazon, Oxadixyl, Oxamyl, Oxyacboxin, Oxydemeton methyl, Paclobutrazol, Paraoxon ethyl, Paraoxon methyl, Penconazole, Pencycuron, Pendimethalin, Penoxsulam, Permethrin, Pethoxamid, Phenmedipham, Phenthoate, Phorate, Phorate sulfoxide, Phosalone, Phosdrin (Mevinphos), Phosmet, Phosmetoxon, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Pirimicarb desmethyl, Pirimicarb-desmethyl-formamido, Pirimiphos ethyl, Pirimiphos methyl, Pirimiphos-Methyl-N-Desethyl, Prallethrin, Prochloraz, Profenofos, Profoxydim, Promecarb, Prometryn, Propachlor, Propamocarb, Propanil, Propaquizafop, Propargite, Propazine, Propetamphos, Propiconazole, Propoxur, Propoxycarbazon, Propylamide, Proquinazid, Prosulfocarb, Prosulfuron, Prothioconazole, Prothioconazoledesthio, Pyraclostrobin, Pyraflufen ethyl, Pyrasulfotole, Pyrazophos, Pyridaben, Pyridalyl, Pyridaphenthion, Pyrifenoxy, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinalphos, Quinoxifen, Quizalofop ethyl, Rotenone, Saflufenacil, Sethoxydim, Siduron, Silthiofam, Simazine, Simeconazole, Spinetoram, Spinosyn A&D, Spirodiclofen, Spiromesifen, Spirotetramat, Spirotetramat Metabolite keto hydroxy, Spirotetramat Metabolite mono hydroxy, Spiroxamine, Sulfentrazone, Sulfosulfuron, Sulfotep, Sulfoxaflor, Sulprofos, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebutiuron, Teflubenzuron, Temephos, Tepraloxym, Terbacil, Terbufos, Terbufos sulfone, Terbufos sulfoxide, Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrin, Thiabendazole, Thiachloprid, Thiamethoxam, Thidiazuron, Thifensulfuron methyl, Thiobencarb, Thiofanox sulfoxide, Thiometon sulfone, Thiophanate methyl, Tiocarbaryl, Tolclofos Methyl, Topramezone, Tralkoxydim, Triadimefon, Triadimenol, Triallate, Triasulfuron, Triazophos, Tribenuron methyl, Trichlorfon, Triclopyr, Tricyclazole, Tridemorph, Trifloxystrobin, Triflumizole, Triflumuron, Triflusaluron methyl, Triticonazole, Tritosulfuron, Uniconazole, Valifenalate, Vamidothion, Vamidothion sulfone, Vamidothion sulfoxide, Warfarin, Zoxamide.</p>	
<p>9. Special categories (spices, herbs, tea, coffee, cocoa)</p>	<p>1. Determination of 208 pesticide residues:</p> <p>Acetochlor, Aclonifen, Acrinathrin, Ametryn, Atrazine, Azaconazole, Azinphos Ethyl, Azoxystrobin, Benalaxyl, Benfluralin, Bifenox, Bifenthrin, Biphenyl, Bitertanol 1&2, Boscalid, Bromophos Ethyl, Bromophos Methyl, Bromopropylate, Bromuconazole 1, Bromuconazole 2, Buprofezin, Butafenacil, Cadusafos, Carbofuran, Chlorbufam, Chlordane alpha (cis), Chlordane gamma (trans), Chlorfenapyr, Chlorfenson, Chlorfenviphos 1, Chlorfenviphos 2, Chlorobenzilate, Chloropropylate, Chlorothalonil, Chlorpropham, Chlorpyrifos Ethyl, Chlorpyrifos Methyl, Chlorthal dimethyl/DCPA, Chlorthion Methyl, Chlorthiophos, Chlozolinate, Climbazole, Clodinafop-propargyl, Cloquintocet mexyl, Coumaphos, Cyanazine, Cyanofenphos, Cycloate, Cyflufenamide, Cyfluthrin (Mix of Isomers), Cyhalothrin lambda, Cypermehrin (Mix of Isomers), Cyproconazol 1&2, Cyprodinil, Desmetryn, Diallylate-trans, Diazinon, Dichlofenthion, Dichlorvos, Diclobutrazol, Dicofof 1,2, Dieldrin, Dimethenamid, Dinitramine, Dioxathion, Diphenamid, Dipropetryn, Dyfonate (Fonophos), Endosulfan alpha, Endosulfan beta, Endosulfan lactone, Endosulfansulfate, Endrin, Epoxiconazole 1&2, Esfenvalerate, Etaconazol 1&2, Ethalfluralin, Ethion, Etridiazol, Etrifmos, Fenamiphos, Fenarimol, Fenbuconazol, Fenchlorphos, Fenitrothion, Fenoxycarb, Fenproparthrin, Fenpropimorph, Fenson, Fensulfothion, Fenthion, Fenvalerate 1, Fenvalerate 2, Fipronil, Fluzafop-P-butyl, Fluchloralin, Flucythrinate 1, Flucythrinate 2, Fludioxinil,</p>	<p>In house method (OE-7.0-56) with GC-MS/MS, based on ELOT EN 15662 and SANTE/12682/2019</p>

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
<p>9. Special categories (spices, herbs, tea, coffee, cocoa) (continued)</p>	<p>Flufenoxuron, Flumetralin, Fluopicolide, Fluotrimazole, Fluquinconazole, Flusilazole, Flutriafol, Fluvalinate-tau 1&2, Formothion, Furalaxyl, Haloxyfop-etotyl, HCH alpha, HCH beta, HCH delta, HCH gamma, Heptachlor Epoxide A, Heptachlor Epoxide B, Heptenophos, Hexaconazole, Hexazinone, Indoxacarb, Iodofenphos, Iprobenphos, Isazophos (Miral), Isocarbofos, Isafenphos, Isafenphos Methyl, Isoprocarb, Isopropalin, Isoprothiolane, Isoxathion, Kresoxim-methyl, Malathion, Mecarbam, Mepronil, Metalaxyl, Metazachlor, Methacrifos, Methoprotryne, Methoxychlor 2, Metolachlor, Metribuzin, Mevinphos/Phosdrin, Myclobutanil, Naled, Napropamide, Nitrapyrin, Nitrofen, Nitrothal isopropyl, Nuarimol, o-phenylphenol, Oxadiazon, Oxadixyl, Oxyfluorfen, Paclbutrazol, Paraoxon Ethyl, Parathion Ethyl, Penconazole, Pendimethalin, Perthan, Phenthoate, Phosalone, Picoxystrobin, Piperonyl butoxide (PBO), Pirimiphos Ethyl, Pirimiphos Methyl, Prochloraz, Procymidone, Profenofos, Prometryn, Propachlor, Propazine, Propetamphos, Propam, Propisochlor, Propyzamide, Prosulfocarb, Prothiofos, Pyraflufen Ethyl, Pyrazophos, Pyridaben, Pyridalyl, Pyrimethanil, Quinalphos, S421, Simeconazole, Spiromesifen, Spirotetramat, Tebuconazole, Tebufenpyrad, Tefluthrin, Terbacil, Terbufos, Terbumeton, Terbutylazine, Terbutryn, Tetraconazole, Thiobencarb, Tolclofos Methyl, Transfluthrin, Triadimefon, Triadimenol 1&2, Triallate, Triazophos, Trifloxystrobin, Trifluralin, Triticonazole, Uniconazole, Vinclozolin.</p> <p>2. Determination of 222 pesticide residues: 2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acephate, Acetamidiprid, Alaclor, Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos Ethyl, Azinphos Methyl, Azoxystrobin, Benalaxyl, Boscalid, Bromacil, Bromuconazole 1&2, Bupirimate, Cadusafos, Carbaryl, Carbenfendazim, Carbetamide, Carbofuran, Carpropamid, Chlorantraniliprole, Chlorfenvinphos 1&2, Chloridazon, Chlorpropham, Chlorpyrifos Ethyl, Chlortoluron, Chromafenozide, Clodinafop-propargyl, Clomazone, Clothianidin, Crimidine, Cyanazine, Cyanofenphos, Cycloate, Cyflufenamid, Cymiazole, Cyproconazol 1&2, Cyprodinil, DEET, Deltamethrin, Desmethyl-formamido-pirimiticarb, Desmetryn, Diazinon, Diclobutrazol, Dicrotophos, Diethofencarb, Difenconazol 1&2, Dimethenamid, Dimethoate, Dimethomorph 1&2, Dimoxystrobin, Diniconazol, Diphenamid, Dipropetryn, Diuron, DMST, Dodemorph, Epoxiconazol, Etaconazole, Ethion, Ethiprole, Ethofumesate, Ethoprophos, Etrifos, Fenamidone, Fenamiphos, Fenamiphos sulfone, Fenarimol, Fenbuconazole, Fenitrothion, Fenobucarb, Fenoxycarb, Fenpropimorph, Fensulfothion, Fenthion oxon, Fenthion sulfoxide, Fipronil, Fluazifop butyl, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluopyram, Fluoroglycofen Ethyl, Fluoxastrobil, Fluoxypyrimethyl, Flurtamone, Flusilazole, Flutolanil, Flutriafol, Fluxapyroxad, Formetanate, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Halofenozide, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexazinone, Imazalil, Imazamethabenz Methyl, Imidachloprid, Indoxacarb, Iprobenphos, Iprovalicarb 1&2, Isazofos, Isafenphos, Isafenphos Methyl, Isoprocarb, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxathion, Kresoxim Methyl, Lenacil, Malaaxon, Mandipropamid, Mefenacet, Mefenpyr Diethyl, Mephospholan, Mepronil, Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methidathion, Methiocarb sulfoxide, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metoxuron, Metrafenone, Metribuzin, Monuron, Myclobutanil, Napropamide, Nitrothal isopropyl, Norflurazon, Ofurace, Omethoate, Oxadiargyl, Oxadiazon, Oxadixyl, Oxamyl, Paclbutrazol, Paraoxon Ethyl, Penconazole, Pendimethalin, Pethoxamid, Phenthoate, Phorate-Sulfoxide, Phosdrin (Mevinphos), Phosmet, Phosphamidon, Phoxim, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Pirimiphos Ethyl, Pirimiphos Methyl, Pirimiphos-Methyl-N-Desmethyl, Prochloraz, Profenofos, Promecarb, Prometryn, Propachlor, Propamocarb, Propanil, Propargite, Propazine, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Prothioconazole-desthio, Pyraclostrobin, Pyraflufen Ethyl, Pyridaphenthion, Pyrimethanil, Quinalphos, Rotenone, Silthiofam, Simazine, Simeconazole, Sulfotep, Sulfoxaflor, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Terbufos sulfone, Terbufos sulfoxide, Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrin, Thiachloprid, Thiamethoxam, Thiodicarb, Thiometon sulfone, Thiometon sulfoxide, Triadimefon, Triazophos, Trifloxystrobin, Triflumizole, Triticonazole, Valifenalate, Vamidothion, Vamidothion sulfone, Vamidothion sulfoxide, Zoxamide.</p>	<p>In house method (OE-7.0-56) with LC-MS/MS, based on ELOT EN 15662 and SANTE/12682/2019</p>

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
<p>10. Animal Feed Products with</p> <p>a. high water content b. high or intermediate fat content c. high content in starch and protein d. Meat and fish e. Milk and mlik products</p> <p>Annex A, Feed, SANTE/12682/2019</p>	<p>1. Determination of 201 pesticide residues: 2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acetamidrid, Ametryn, Aminocarb, Atrazine, Atrazine-desethyl, Azaconazole, Azamethiphos, Azoxystrobin, Benalaxyl, Benthialdicarb-isopropyl, Bixafen, Bromacil, Bupirimate, Buprofezin, Buturon, Cadusafos, Carbaryl, Carbendazim, Carbofuran, Carbofuran-3-keto, Chlorantraniliprole, Chlorbromuron, Chlorfenvinphos 1&2, Chlorfluazuron, Chloroxuron, Chlorpyrifos Ethyl, Chromafenozide, Clomazone, Cloquintocet-mexyl, Coumaphos, Crimidine, Cyanofenphos, Cyflufenamid, Cyprodinil, DEET, Deltamethrin, Demeton-S-methyl sulfone, Desmethyl-formamido-pirimicarb, Desmethyl-pirimicarb, Desmetryn, Diazinon, Dicrotophos, Difenconazol 1&2, Diflufenican, Dimethachlor, Dimethenamid, Dimethoate, Diphenamid, Dipropetryn, Disulfoton Sulfone, Disulfoton sulfoxide, DMA, DMF, DMST, Dodemorph, Emamectin B1a, Epoxiconazol, Ethiofencarb, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethoprophos, Etoxazole, Etrimfos, Fenamidone, Fenamiphos, Fenamiphos sulfone, Fenamiphos-Sulfoxide, Fenazaquin, Fenbuconazole, Fenchlorazol-ethyl, Fenitrothion, Fenobucarb, Fenoxycarb, Fenpropimorph, Fenpyroximate, Fenthion oxon, Fenthion sulfoxide, Fluzifop butyl, Fluometuron, Fluopicolide, Fluopyram, Fluoxastrobin, Flupyradifurone, Fluroxypr Meptyl, Flurtamone, Flusilazole, Fluthiacet-methyl, Flutolanil, Flutriafol, Fluxapyroxad, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Heptenophos, Hexaconazole, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz Methyl, Imidachloprid, Indoxacarb, Iprobenphos, Isazofos, Isofenphos Methyl, Isoprocab, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxathion, Lenacil, Malaaxon, Mepanipirim, Mephospholan, Mepronil, Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methidathion, Methiocarb, Methiocarb Sulfone, Methiocarb sulfoxide, Methoprotryne, Metobromuron, Metoxuron, Metrafenone, Metribuzin, Monolinuron, Monuron, Napropamide, Norflurazon, Ofurace, Omethoate, Oxadixyl, Oxycarboxin, Penconazole, Pethoxamid, Phorate-Sulfoxide, Phosalone, Phosdrin (Mevinphos), Phosmet, Phosmet-Oxon, Picolinafen, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos Ethyl, Pirimiphos Methyl, Pirimiphos-Methyl-N-Desmethyl, Profenofos, Prometryn, Propachlor, Propamocarb, Propazine, Propiconazole, Propoxur, Proquinazid, Prosulfocarb, Pyraclostrobin, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxifen, Siduron, Simazine, Spinetoram J, Spinetoram L, Spinosyn A, Spinosyn D, Spirodiclofen, Sulfotep, Tebufenpyrad, Tebuthiuron, Temephos, Terbufos sulfoxide (NH4+), Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Thiachloprid, Thiobencarb, Thiometon sulfone, Tiocarbazil, Triazophos, Tricyclazole, Trifloxystrobin, Triflumizole, Valifenalate, Zoxamide</p>	<p>In house method (OE-7.0-188) based on ELOT EN 15662 and SANTE/12682/2019 with LC-MS/MS</p>
<p>11. Animal Feed</p> <p>f. Special substrates (e.g., Straw, Hay, Premixes)</p>	<p>1. Determination of 239 pesticide residues: 2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acephate, Acetamidrid, Ametroctradin, Ametryn, Aminocarb, Atrazine, Atrazine-desethyl, Azaconazole, Azamethiphos, Azimsulfuron, Azoxystrobin, Benalaxyl, Benthialdicarb-isopropyl, Bifethrin , Bispyribac-sodium, Boscalid, Bromacil, Bupirimate, Buprofezin, Butafenacil , Buturon, Cadusafos, Carbaryl, Carbendazim, Carbetamide, Carbofuran, Carboxin, Carpropamid, Chlorbromuron, Chlorfenvinphos 1&2, Chloridazon, Chromafenozide, Climbazol, Clodinafop-propargyl, Clomazone, Cloquintocet-mexyl, Cloransulam Methyl, Coumaphos, Cyanofenphos, Cyflufenamid, Cymiazole, Cyprodinil, DEET, Deltamethrin, Demeton-S-methyl sulfone, Desmethyl-formamido-pirimicarb, Desmethyl-pirimicarb, Desmetryn, Diazinon, Diclobutrazol, Difenacoum, Difenconazol 1&2, Dimethylaminosulfanilid (DMSA), Dimethachlor, Dimethenamid, Dimethoate, Diniconazol, Diphenamid, Dipropetryn, Disulfoton Sulfone, Disulfoton sulfoxide, DMA, DMF, DMST, Epoxiconazol, Etaconazole, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etonfenprox, Etrimfos, Fenamidone, Fenamiphos, Fenamiphos sulfone, Fenamiphos-Sulfoxide, Fenarimol, Fenbuconazole, Fenchlorazol-ethyl, Fenitrothion, Fenobucarb, Fenpropimorph, Fensulfothion, Fenthion oxon, Fenthion sulfoxide, Fluzifop butyl, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluopyram, Flupyradifurone, Fluroxypr Meptyl, Flurprimidol, Flurtamone, Flusilazole, Fluthiacet-methyl, Flutolanil, Fluxapyroxad, Formetanate, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Halosulfuron Methyl, Haloxyfop-methyl, Heptenophos, Hexazinone, Imazalil, Imazamethabenz Methyl, Imazosulfuron, Imidachloprid, Indoxacarb, Isazofos, Isofenphos Methyl, Isoprocab, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxathion, Lenacil, Linuron, Malaaxon, Mandipropamid, Mephospholan, Mepronil, Metalaxyl M, Metazachlor, Metconazole, Methabenzthiazuron, Methidathion, Methiocarb, Methiocarb Sulfone, Methoprotryne, Methoxyfenozide, Metobromuron, Metoxuron, Metrafenone, Metribuzin, Monolinuron, Monuron, Naled , Napropamide, Nitrothal isopropyl, Norflurazon, Nuarimol, Ofurace, Omethoate, Oxamyl, Oxasulfuron, Oxycarboxin, Paraoxon Ethyl, Penconazole, Pencycuron, Penoxsulam, Pethoxamid, Phosalone, Phosdrin (Mevinphos), Phosmet, Phosmet-Oxon, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos Ethyl, Pirimiphos Methyl, Pirimiphos-Methyl-N-Desmethyl, Primisulfuron methyl, Prochloraz, Profenofos, Promecarb, Prometryn, Propachlor, Propargite, Propazine, Propoxur, Prosulfocarb, Pyraclostrobin, Pyraflufen Ethyl, Pyrasulfotole, Pyridaben, Pyridaphenthion, Pyridate, Pyrimethanil, Pyriproxyfen, Quinalphos, Quizalofop Ethyl, Rotenone, Saflufenacil, Sethoxydim, Silthiofam, Simeconazole, Spinetoram J, Spinetoram L, Spinosyn A, Spinosyn D, Spirodiclofen, Spirotetramat, Spiroxamine, Sulfosulfuron, Sulfotep, Sulfoxaflor, Sulprofos, Tebufenpyrad, Tebuthiuron, Terbufos sulfone, Terbufos sulfoxide , Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetraethylpyrophosphate, Thiabendazole, Thiachloprid, Thiamethoxam, Thiazuron, Thiobencarb, Tiocarbazil, Tralkoxydim, Triadimefon, Triazophos, Tribenuron Methyl,</p>	<p>In house method (OE-7.0-188) based on ELOT EN 15662 and SANTE/12682/2019 with LC-MS/MS</p>

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	Tricyclazole, Tridemorph, Trifloxystrobin, Triflumizole, Triflusaluron-methyl, Tritosulfuron, Valifenalate, Vamidothion, Vamidothion sulfone, Vamidothion sulfoxide, Warfarin, Zoxamide.	
12. Tobacco	<p>Determination of 251 pesticide residues:</p> <p>2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acephate, Acetamiprid, Aldicarb Sulfone, Ametryn, Aminocarb, Atrazine, Atrazine-desethyl, Azaconazole, Azamethiphos, Azoxystrobin, Benalaxyl, Benthiavalcicarb-isopropyl, Bixafen, Boscalid, Bromacil, Bromuconazole (sum of isomers), Bupirimate, Buprofezin, Butafenacil, Butralin, Buturon, Butylate, Cadusafos, Carbaryl, Carbendazim, Carbofuran, Carbofuran-3-keto, Carfentrazone Ethyl, Carpropamid, Chlorantraniliprole, Chlorbromuron, Chlorfenvinphos (sum of isomers), Chloridazon, Chloroxuron, Chlorpyrifos Ethyl, Chlortoluron, Chromafenozide, Clodinafop-propargyl, Clomazone, Clothianidin, Crimidine, Cyanazine, Cyanofenphos, Cyazofamid, Cycloate, Cyflufenamid, Cymiazole, Cyproconazol (sum of isomers), DEET, Deltamethrin, Demeton-S-methyl sulfone, Desmethyl-formamido-pirimecarb, Desmethyl-pirimecarb, Desmetryn, Diazinon, Dichlorfenthion, Diclobutrazol, Dicrotophos, Diethofencarb, Difenconazol (sum of isomers), Dimethylaminosulfanilid (DMSA), Dimethachlor, Dimethenamid, Dimethoate, Dimethomorph (sum of isomers), Dimoxystrobin, Diniconazol, Diphenamid, Dipropetryn, Disulfoton Sulfone, Disulfoton sulfoxide, DMST, Dodemorph, Epoxiconazol, Etaconazole, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethofumesate, Ethoprophos, Etoxazole, Etrifos, Fenamidone, Fenamiphos, Fenamiphos sulfone, Fenarimol, Fenbuconazole, Fenchlorazol-ethyl, Fenitrothion, Fenobucarb, Fenoxycarb, Fenpropimorph, Fensulfothion, Fenthion oxon, Fenthion sulfoxide, Fluazifop butyl, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluopyram, Fluoroglycofen Ethyl, Fluxastrobin, Fluquinconazole, Flurochloridone, FluroxypyrMeptyl, Flurprimidol, Flurtamone, Flusilazole, Flutolanil, Flutriafol, Fluxapyroxad, Formetanate, Fosthiazate, Furalaxyl, Furathiocarb, Haloxypop-2-ethoxyethyl, Haloxypop-methyl, Heptenophos, Hexaconazole, Hexazinone, Imazalil, Imazamethabenz Methyl, Imidachloprid, Indoxacarb, Iprobenphos, Isazofos, Isofenphos, Isofenphos Methyl, Isoprocab, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxathion, Kresoxim Methyl, Lenacil, Linuron, Malaoxon, Mandipropamid, Mecarbam, Mefenacet, Mephospholan, Mepronil, Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methacrifos, Methidathion, Methiocarb, Methiocarb sulfoxide, Methoprotryne, Methoxyfenozide, Metobromuron, Metoxuron, Metrafenone, Metribuzin, Molinate, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Napropamide, Neburon, Nitenpyram, Nitrothal isopropyl, Norflurazon, Nuarimol, Ofurace, Omethoate, Oxadiargyl, Oxadixyl, Oxamyl, Oxydemeton Methyl, Paclobutrazol, Paraoxon Ethyl, Pebulate, Penconazole, Pencycuron, Pendimethalin, Pethoxamid, Phorate-Sulfoxide, Phosalone, Phosdrin (Mevinphos), Phosmet, Phosphamidon, Phoxim, Picoxystrobin, Piperonyl butoxide, Pirimecarb, Pirimecarb-desmethyl, Pirimiphos Methyl, Pirimiphos-Methyl-N-Desmethyl, Profenofos, Promecarb, Prometryn, Propachlor, Propargite, Propazine, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Prothioconazole-desthio, Pyraflufen Ethyl, Pyridaben, Pyridaphenthion, Pyrimethanil, Quinalphos, Rotenone, Siduron, Silthiofam, Simazine, Simeconazole, Spirodiclofen, Spiromesifen, Spirotetramat, Spirotetramat Metabolite keto hydroxy, Spirotetramat Metabolite Mono Hydroxy, Sulfotep, Sulfoxaflor, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrin, Thiachloprid, Thiamethoxam, Thiobencarb, Thiodicarb, Thiometon sulfone, Thiometon sulfoxide, Tiocarbazil, Tolyfluanid, Triazophos, Tricyclazole, Trifloxystrobin, Triflumizole, Triticonazole, Valifenalate, Vamidothion, Vamidothion sulfone, Zoxamide</p>	In house method (OE-7.0-166) with LC-MS/MS, based on ELOT EN 15662 and SANTE/12682/2019, CORESTA Guide N°5 (2018) & N°1 (2016)
13. Industrial hemp	<p>Determination of 49 pesticide residues:</p> <p>Acephate, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorpyrifos, Cypermethrin, Diazinon, Dichlorvos, Dimethoate, Ethoprophos, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidachloprid, Kresoxim methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Parathion methyl, Phosmet, Piperonyl butoxide, Propoxur, Pyrethrin I, Pyrethrin II, Pyridaben, Spinosyn A&D, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin.</p>	In house method (OE-7.0-165) with LC-MS/MS based on: 1. EAOT EN 15662 2. SANTE/12682/2019 and 3. EUROPEAN PHARMACOPOEIA 7.0, 2.8.13, Pesticides Residues07/2008:20813 4. Quantitation of Oregon List Pesticides and Cannabinoids in Cannabis Matrices by LC-MS/MS
14. Vegetable oils and fats	<p>Determination of 19 plasticizers:</p> <p>Benzyl butyl phthalate (BBP), bis(2-Ethylhexyl) adipate (DEHA), Citroflex A-4 (Acetyl Tributyl Citrate), Di(2-ethyl hexyl) phthalate (DEHP), Di-amyil phthalate (DPP), Dicyclohexyl phthalate (DCHP), Diethyl adipate (DEA), Diethyl phthalate (DEP), Dihexyl phthalate (DHP), Diisobutyl adipate (DIBA), Diisobutyl phthalate (DiBP), Diisodecyl phthalate (DIDP), Diisononyl phthalate (DINP), Diisooctyl phthalate (DIOP), Dimethyl phthalate (DMP), Di-n-butyl adipate (DnBA), Di-n-butyl phthalate (DnBP, DBP), Di-n-octyl phthalate (DnOP), Tributylphosphate (TBP).</p>	In house method (OE-7.0-120) based on EUR 23682 EN – 2009 Methods for the determination of phthalates in food
15. Baby foods, rice and rice products	Determination of inorganic arsenic	In house method (OE-7.0-125) with HPLC/ICP-MS, according to method specification requirements of Regulation 333/2007/EC and as amended by Regulations

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
		836/2011/EC and 2016/582/EC
16. Food and animal feeding stuffs	1. Determination of Fat	In house method (OE-7.0-94) based on AOAC 954.02, 933.05, 948.15, 989.05, 920.111, 952.06, 19 th Ed. In house method (OE-7.0-220) based on ISO 6492:1999, ISO 11085:2015 and on AOAC 2003.05, 963.15, 991.36 19 th Edition
	2. Determination of moisture and solid residue	In house method (OE-7.0-95) based on AOAC 934.01, 925.09, 920.116, 926.08, 952.08, 934.06, 950.46, 990.20, 925.23, 920.107, 19 th Ed. and on ISO 712:2009
	3. Determination of Kjeldahl nitrogen and total nitrogen (Dumas)	In house method (OE-7.0-96) based on AOAC 2001.11, 2001.14, 981.10, 991.20, 920.109, 930.33, 920.152, 19 th Ed.
		In house method (OE-7.0-221) based on ISO 16634-1:2008, ISO 16634-2: 2016 and ISO 14891:2002 (Dumas)
	4. Determination of ash	In house method (OE-7.0-97) based on AOAC, 923.03, 935.42, 938.08, 926.53, 920.108, 942.05, 940.26, 19 th Ed.
	5. Determination of water activity (a_w)	In house method (OE-7.0-138) based on ISO 21807:2004 and ISO 18787:2017.
	6. Determination of Aflatoxins (B1, B2, G1, G2)	In house method (OE-7.0-149) with Liquid Chromatography, based on ISO 16050:2003.
	7. Determination of Ochratoxin A	In house method (OE-7.0-151) with Liquid Chromatography, based on ISO 15141:2018.
	8. Determination of pH	In house method (OE-7.0-173) based on ISO 2917:1999, ISO 1842:1991 and on AOAC 945.42, 943.02, 981.02, 970.21, 19 th Ed.
	9. Determination of dietary fiber	In house method (OE-7.0-115) based on AOAC 985.29.
10. Determination of elements (flexible scope) The elements are specified in detail in the List of Accredited Activities Flexible Field of the Laboratory (Document E-5.2, according to ESYD/G-FYTOPROST 2016, Link: LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE)	In house method (OE-7.0-93) based on BS EN 15763:2009 and on ELOT EN 13804:2013 with ICP-MS and in accordance with the performance criteria of EC / 333/2007 and its amendments EC / 836/2011 and EC 2016/582	
<p>The flexibility that applies covers the following categories</p> <p>Flexibility in relation to</p> <ul style="list-style-type: none"> • adding new elements to existing matrices • the integration of new matrices in existing methods • the extension of methods to a new subcategory of matrices • the extension/modification of existing methods (technique, scope of determination, quantification limit) <p>Accredited Methods are described in detail on the Laboratory's site.</p>		

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
17. Food	1. Determination of Sugars (glucose, fructose, sucrose, maltose, galactose, lactose)	In house method (OE-7.0-182) based on AOAC 980.13, 982.14, 977.20, 19 th Ed. and on ISO 22662:2007
	2. Determination of Total and Digestible Carbohydrates, of Energy Value and Sodium Chloride	In house method (OE-7.0-183) Calculated based on Regulation 1169/2011 as amended and in force to date
18. Oils and Foods of Plant and Animal Origin with High Fat Content	Determination of Fatty Acids with gas chromatography	In house method (OE-7.0-181) based on Regulation 1833/2015 as amended and in force to date and on ISO 12966-1 and ISO 12966-2
19. Olives oils and vegetable oils	1. Determination of acidity	Regulation 2568/91/EEC (Annex II)
	2. Determination of peroxide value	Regulation 2568/91/EEC (Annex III)
20. Olive oils	Determination of the extinction coefficient K (at 268 nm and 232 nm) and the parameter ΔK	Regulation 2568/91/EEC (Annex IX) by spectrophotometry
21. Milk (raw and powdered)	Determination of Aflatoxin M1	In house method (OE-7.0-150) with Liquid Chromatography, based on ISO 16050:2003.
22. Milk and dairy products, foods high in fat levels, meat products, wheat and bakery products, patisserie products, marmalades and jams, non-alcoholic beverages, juices and alcoholic beverages	Determination of benzoic and sorbic acid	In house method (OE-7.0-106) based on ISO 22855:2008
23. Fruits and Vegetables (except fresh grapes, peeled, frozen, dried, fruit and vegetables in vinegar, brine or oil, canned), Jam, Jelly, Meat, Bakery Foods, Flour, Cereals, Pastry, mollusks and Crustaceans, soft drinks and fruit juices (Excluding some special food subcategories with legislative level <20mg / kg according to Reg 1129/2011).	Determination of Sulphur dioxide and Sulfites content	In house method (OE-7.0-114) based on method D2 of Greek Food Code Part B' by titrimetry
24. Meats, Dairy Products, Fruits, and Vegetables (excluding some special food subcategories with legislative level <20mg / kg according to Reg 1129/2011).	Determination of nitrite and nitrate content	In house method (OE -7.0-116) based on ISO 2918:1975, ISO 3091:1975, ISO 6635:1984 and ISO 14673:2004.

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
25. Bread and bread products, bakery, and cereal products, french fries and potatoes products, coffee, and coffee substitutes	Determination of Acrylamide	In house method (OE-7.0-137) with LC-MS/MS, based on EN 16618:2015
26. Bakery products and cereal	Determination of Deoxynivalenol (DON) and Zearalenone (ZON)	In house method (OE-7.0-226) with LC-MS/MS
27. Meat and meat products	Determination of hydroxyproline and collagen	In house method (OE-7.0-174) based on ISO 3496:1994 and Regulation 1169/2011 as amended and in force to date
28. Juices and Non-Alcoholic Beverages	Determination of ascorbic acid (Vitamin C) with Liquid chromatography	In house method (OE-7.0-180) with HPLC-UV based on Campos F.M etall, (2009), Quim.Nova , 32: 87-91
29. Honey	1. Determination of electrical conductivity	In house method (OE-7.0-176) based on International Honey Commision 2009 p.16-18
	2. Determination of hydroxymethylfurfural (HMF)	In house method (OE-7.0-175) based on International Honey Commision 2009 p.29-31
	3. Determination of diastase activity	In house method (OE-7.0-177) with Phadebas based on International Honey Commision 2009 p.39-41
	4. Determination of free acidity	In house method (OE-7.0-179) based on International Honey Commision 2009 p.21-23
	5. Determination of insoluble matter	In house method (OE-7.0-178) based on International Honey Commision 2009 p.55
	6. Determination of pH	In house method (OE-7.0-173) based on International Honey Commision 2009 p.21-25
	7. Determination of Sugars (glucose, fructose, sucrose)	In house method (OE-7.0-182) based on International Honey Commision 2009 p.46-48
30. Soil	1. Determination of Li, Be, Na, Mg, P, K, Ca, Cr, Co, Ni, Cu, Zn, As, Se, Mo, Ag, Cd, Sn, Hg, Tl, Pb and U	In house method (OE-7.0-93) with ICP-MS, based on ISO/TS 16965:2013
	2. Determination of Hydrocarbons and Mineral oils (hydrocarbon oil index)	In house method (OE-7.0-131) with GC-FID, based on ISO 16703:2004
	3. Determination of Total Nitrogen	In house method (OE-7.0-227), based on ISO 13878:1998

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	4. Determination of Total Organic Carbon (TOC)	In house method (OE-7.0-228), based on ISO 10694:1998
31. Sludge and Sediments	1. Determination of Li, Be, B, Na, Mg, P, K, Ca, V, Cr, Mn, Co, Ni, Cu, Zn, As, Se, Sr, Mo, Ag, Cd, Sn, Sb, Ba, Hg, Tl, Pb and U	In house method (OE-7.0-93) with ICP-MS, based on ISO/TS 16965:2013
	2. Determination of Total Solids, non-Volatile and Volatile Solids	In house method (OE-7.0-98) based on APHA 2540 G, 23rd Ed.
	3. Determination of pH in Sludges	ISO 10523:2008
	4. Determination of Total Nitrogen	In house method (OE-7.0-227), based on ISO 13878:1998
	5. Determination of Total Organic Carbon (TOC)	In house method (OE-7.0-228), based on ISO 10694:1998
32. Granular waste materials, sludges, soils and soil-like materials	1. One stage leaching test at a liquid to solid ratio of: L/S=2 l/kg.	In house method (OE-7.0-160) based on: 1. ELOT EN 12457-01:2002 and 2. ISO 21268-1:2019 and according to Directive 2003/33/EC
	2. One stage leaching test at a liquid to solid ratio of: L/S=10 l/kg.	In house method (OE-7.0-160) based on: 1. ELOT EN 12457-01:2002 and 2. ISO 21268-1:2019 and according to Directive 2003/33/EC
	3. Two stage leaching test at a liquid to solid ratio of: L/S=2 l/kg και L/S=8 l/kg	In house method (OE-7.0-160) based on ELOT EN 12457-03: 2002
	4. Up-flow percolation test	In house method (OE-7.0-161) based on: 1. EΛOTEN 14405:2017 και 2. ISO 21268-3:2019 and according to Directive 2003/33/EC
33. Ceramic Materials	Determination of Specific Migration of lead and cadmium in ceramic materials.	In house method (OE-7.0-229) based on in Directive 84/500/EEC and in Directive 2005/31 / EC.
Sensory Tests		
Water for human consumption	Determination of the threshold odour number (TON) and threshold flavour number (TFN)	In house method (OE -7.0-105) based on ELOT EN 1622:2006
Biological Tests		
1. Water, hemodialysis fluid and ultra-pure hemodialysis fluid for hemodialysis and related therapies	Determination of Bacterial Endotoxin content (LAL test)	Charles River Endosafe® PTS portable Test System Protocol
2. Water and Wastewater	Determination of acute water toxicity by the mobility inhibition test of Daphnia magna	ISO 6341:2012

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
3. Samples from surfaces and water samples	Horizontal method for quantification of hepatitis A virus and norovirus using Real Time RT-qPCR	In house method based on ISO 15216-1:2019, with Real-Time qPCR using Azure Cielo 6 Real Time thermal cycler (Azure Biosystems Inc)
4. Samples from surfaces and water samples	Horizontal method for detection of hepatitis A virus and norovirus using Real Time RT-qPCR	In house method based on ISO 15216-2:2019, with Real-Time qPCR using Azure Cielo 6 Real Time thermal cycler (Azure Biosystems Inc)
5. Water, surface water and groundwater	Detection of Cryptosporidium spp and Giardia Lamblia, using Real Time RT-qPCR	In house method (OE 7.0-218) based on Guy, R. A., Payment, P., Krull, U. J., & Horgen, P. A. (2003): Real-time PCR for quantification of Giardia and Cryptosporidium in environmental water samples and sewage [Applied and Environmental Microbiology, 69(9), 5178-5185], with Real-Time qPCR using Azure Cielo 6 Real Time thermal cycler (Azure Biosystems Inc)
6. Wastewater	Detection of SARS-COV-2 RNA, using Real Time RT-qPCR	In house method (OE 7.0-209) based on the method described by IDEXX in Kit Water SARS-CoV-2 RT-qPCR Test, with Real-Time qPCR using Azure Cielo 6 Real Time thermal cycler (Azure Biosystems Inc)
7. Soya and soya products (seeds, food, feed, raw materials)	Screening method for genetically modified organisms (GMOs), by the detection of CaMV 35S promoter and nopaline synthase terminator (NOS).	In house method (OE 7.0-211), based on: 1. ISO 21569:2005 2. Waiblinger, et al, Eur Food Res Technol (2008) 226:1221–1228 3. Laube et al, Food Chemistry (2010) 118: 979–986 using Real-Time PCR. DNA isolation with “MagCore® Genomic DNAPlant Kit” (MAGCORE)
8. Corn and corn products (seeds, food, feed, raw materials)		
9. Food and animal feeding stuffs	Detection of Staphylococcal Enterotoxins	ISO 19020:2017
Immunochemical Tests		
1. Water, hemodialysis fluid and ultra-pure hemodialysis fluid for hemodialysis and related therapies	Determination of Bacterial Endotoxin content (LAL test)	European Pharmacopeia 10th Ed, chap. 2.6.14, Bacterial Endotoxins, Photometric Quantitative Techniques, Method D.
2. Processed and unprocessed Foods	Determination of gluten	In house method (OE-7.0-222) based on RidaScreen Gliadin (R7001) and according to AOAC 991.19-2001 and 2012.01-2012

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
Physical Tests		
1. Water for human consumption, surface water and groundwater	1. Determination of Tritium activity concentration (##)	ISO 9698: 2019 Range tSIE from 69 to 272
	2. Determination of gross alpha and beta activity concentration (##)	ISO 11704:2010
	3. Determination of Radon-222 (²²² Rn) activity concentration (##)	ISO 13164-4:2015
2. Water and Wastewater	Temperature measurement	APHA 2550, 23 rd Ed.,
Microbiological Tests		
1. Water (water for human consumption, surface and groundwater, pool water, sea water) wastewater	1. Enumeration of culturable micro-organisms at 22±2°C and 36±2 °C	ISO 6222:1999
	2. Detection of <i>Salmonella</i> spp.	ISO 19250:2010
	3. Detection and enumeration of <i>Pseudomonas aeruginosa</i>	ISO 16266:2006
	4. Detection and enumeration of <i>Cl. perfringens</i> (including spores)	ISO 14189:2013
	5. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
	6. Detection and enumeration of fecal coliforms	APHA 9222D
	7. Detection of <i>Shigella</i> spp.	APHA 9260E
2. Water for human consumption	Detection of <i>Campylobacter</i> spp.	ISO 17995:2005
3. Water (water for human consumption, surface and groundwater, pool water, sea water)	Detection and enumeration of total coliforms and <i>E. coli</i>	ISO 9308-1:2014
4. Water and environmental samples (sludge, precipitates etc)	1. Enumeration of <i>Legionella</i>	ISO 11731:2017
5. Legionella isolates from water and environmental samples	1. Serological identification of <i>Legionella</i> spp: <i>L. pneumophila</i> serogroup 1, <i>L. pneumophila</i> serogroups 2-14, <i>L. longbeachae</i> 1 and 2, <i>L. bozemanii</i> 1 and 2, <i>L. dumofii</i> , <i>L. gormanii</i> , <i>L. jordanis</i> , <i>L. micdadei</i> , <i>L. anisa</i>	Legionella Latex Test – OXOID DR0800M
6. Water (surface and groundwater), wastewater	1. Detection and enumeration of total coliforms	APHA 9222 B
	2. Detection and enumeration of <i>E. coli</i>	APHA 9222 H
7. Treated wastewater from treatment plant	Enumeration of <i>E. coli</i> and coliform bacteria	ISO 9308-1:2014
8. Water for haemodialysis and related therapies	Enumeration of total aerobic microorganisms at 20 °C	ISO 23500-3:2019
9. Dialysis fluid for haemodialysis and related	Enumeration of total aerobic microorganisms at 20 °C	ISO 23500-5:2019

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
therapies		
10. Water (water for human consumption, surface and groundwater, pool water, recreational water)	Enumeration of <i>S. aureus</i>	APHA 9213 B
11. Food and animal feeding stuffs	1. Enumeration of the total aerobic micro-organisms at 30 °C	ISO 4833-1:2013
	2. Horizontal method for the enumeration of coliforms	ISO 4832:2006
	3. Enumeration of β -glucuronidase-positive <i>Escherichia coli</i>	ISO 16649-2:2001
	4. Enumeration of coagulase – positive staphylococci (<i>Staphylococcus aureus</i> and other species)	ISO 6888-2:1999/Amd 1:2021
	5. Enumeration of anaerobic sulfite reducing clostridia	ISO 15213:2003
	6. Enumeration of <i>Cl. perfringens</i>	ISO 7937:2004
	7. Detection of non typhi non paratyphi <i>Salmonella</i> spp.	ISO 6579-1:2017
	8. Detection of <i>Listeria</i> spp. and <i>Listeria monocytogenes</i>	ISO 11290-1:2017
	9. Enumeration of <i>Listeria</i> spp. and <i>Listeria monocytogenes</i>	ISO 11290-2:2017
	10. Enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2:2017
	11. Enumeration of presumptive <i>Bacillus cereus</i> -- Colony-count technique at 30° C	ISO 7932:2004
	12. Detection of <i>Campylobacter</i> spp.	ISO 10272-1:2017
	13. Enumeration of <i>Campylobacter</i> spp.	ISO 10272-2:2017
	14. Detection of <i>Vibrio parahaemolyticus</i>	ISO 21872-1:2007
	15. Enumeration of mesophilic lactic acid bacteria -- Colony-count technique at 30°C	ISO 15214:1998
	16. Enumeration of β -glucuronidase-positive <i>Escherichia coli</i> (MPN Method)	ISO 16649-3:2015
	17. Horizontal method for the detection of <i>Escherichia coli</i> O157	ISO 16654:2001
	18. Detection of <i>Cronobacter</i> spp.	ISO 22964:2017
	19. Enumeration of <i>Brochothrix</i> spp.	ISO 13722:2017
	20. Detection of <i>Shigella</i> spp.	ISO 21567:2004
	21. Detection of pathogenic <i>Yersinia enterocolitica</i>	ISO 10273:2017
	22. Conduction challenge tests to study growth potential, lag time and maximum growth rate of <i>Listeria monocytogenes</i>	Method according to EURL Lm TECHNICAL GUIDANCE DOCUMENT on challenge tests and durability studies for assessing shelf-life of ready-to-eat foods related to <i>Listeria monocytogenes</i> Version 4 of 1 July 2021
12. Food and animal feeding stuffs with $a_w > 0,95$	Enumeration of yeasts and moulds	ISO 21527-1:2008

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
13. Food and animal feeding stuffs with $a_w \leq 0,95$	Enumeration of yeasts and moulds	ISO 21527-2:2008
14. Meat and meat products	Enumeration of <i>Pseudomonas</i> spp.	ISO 13720:2010
15. Animal faeces and environmental samples from the primary production stage	Detection of non typhi non paratyphi <i>Salmonella</i> spp.	ISO 6579-1:2017
16. Salmonella isolates	Serotyping of <i>S. Enteritidis</i> and <i>S. Typhimurium</i>	ISO/TR 6579-3:2014
17. Cosmetics	1. Enumeration and detection of aerobic mesophilic bacteria	ISO 21149:2017
	2. Detection of <i>Candida albicans</i>	ISO 18416:2015
	3. Enumeration of yeast and moulds	ISO 16212:2017
	4. Detection of <i>S. aureus</i>	ISO 22718:2015
	5. Detection of <i>E. coli</i>	ISO 21150:2015
	6. Detection of <i>Pseudomonas aeruginosa</i>	ISO 22717:2015
18. Water for Injections	Enumeration of total aerobic mesophilic count (TAMC)	European Pharmacopoeia/ Monograph W 04/2017:0169
19. Water for preparation of Extracts	Enumeration of total aerobic mesophilic count (TAMC) at 30oC	European Pharmacopoeia/ Monograph W 04/2012:2249
20. Purified Water	Enumeration of total aerobic mesophilic count (TAMC) at 30oC	European Pharmacopoeia/ Monograph W 04/2018:0008
21. Water (water for human consumption, surfacewater and groundwater)	Detection and Enumeration of somatic coliphages (ϕ)	ISO 10705-2:2000
Environmental Tests		
Air	Determination of airborne biocontamination (passive sampling)	ISO 14698-1:2003
Sampling		
1. Drinking water and water for human consumption, processed waters, recreational waters and seawaters, water from lakes, rivers and streams, swimming pool water, environmental samples (sludge, sediments, sewage), water from air-conditioning instruments, waste, wastewaters and sludges	1. Determination of chemical parameters	ISO 5667-1:2020 ISO 5667-3:2018 ISO 5667-4:2016 ISO 5667-5:2006 ISO 5667-6:2014 ISO 5667-9:1992 ISO 5667-10:2020 ISO 5667-11:2009 ISO 5667-13:2011 ISO 5667-14:2014 ISO 5667-15:2009 ISO 18400-101:2017 ISO 18400-102:2017 ISO 18400-103:2017

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
		ISO 18400-104:2018 ISO 18400-105:2018 ISO 18400-106:2017 ΕΛΟΤ EN 14899:2006
	2. Microbiological investigations	ISO 19458:2006 ISO 5667-1:2020 ISO 5667-5:2006 ISO 5667-6:2014 ISO 5667-9:1992 ISO 5667-13:2011 ISO 5667-14:2104
2. Samples from surfaces using contact plates and swabs	Horizontal methods for sampling techniques for microbiology tests	ISO 18593:2018

[#] Methods marked with (#) are in accordance with the method specification of Ministerial Decision Γ1(δ)/ΓΠοικ.67322/6.9.2017 (ΦΕΚ 2382/Β/19-9-2017) concerning the quality of the water intended for human consumption

^{##} Methods marked with (##) are in accordance with the method specification of Ministerial Decision Π/112/1057/2016/1.2.2016 ΚΥΑ (ΦΕΚ 241/Β/9-2-2016) and the Council Directive 2013/51/EYRATOM

[§] Methods marked with (§) are in accordance with the method specification of Council Directive (EU) 2020/2184 of 16 December 2020 on the quality of water intended for human consumption

⁽¹⁾ Waste and Wastewater include leachates from the leaching test at a liquid to solid ratio of: $L/S = 2$, $L/S = 8$ and $L/S = 10$ l/kg and leachates from the up-flow percolation test.

Site of assessment: Laboratory permanent premises – **Nafpliou 29, 14452, Metamorfofi, Athens, GREECE**

Approved signatories: **D. Roukas, P. Nisianakis, G. Moschonas, D. Skandalis**

This Scope of Accreditation replaces the previous one, dated 19.07.2022.

The Accreditation Certificate No. **102-5**, according to ELOT EN ISO/IEC 17025:2017, has been extended until 09.04.2023.

Athens, 4th of October 2022

Christos Nestoras
CEO of ESYD