Hellenic Accreditation System

Annex F1/25 to the Certificate No. **46**-5

SCOPE of ACCREDITATION

of the

Testing Laboratory

of

"CHEMICOTECHNIKI",

Lagouvardou - Spantidaki Co.

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
Chemical Tests		
1. Water potable, surface and groundwater for human consumption or not	1. Nephelometric determination of Turbidity	In House Method NX_14 based on APHA* 2130 B, 24th Ed., 2023
	2. Determination of Color	APHA 2120 C, 24th Ed., 2023
	3. Determination of pH	ELOT 658:1983
	4. Determination of Conductivity	M 2510, APHA*, 24th Ed., 2023
	5. Determination of Total Hardness	ISO 6059:1984
	6. Determination of Total and Composite Alkalinity, Carbonate Hardness, Carbonate, Bicarbonate and Hydroxyl ions	ISO 9963-1:1994
	7. Determination of Permanent Hardness	Calculated by the Total and the Carbonate Hardness, In House Method NX_36
	8. Determination of Calcium	ELOT 169:1978
	9. Determination of Magnesium	APHA*3500-Mg B,24th Ed., 2023
	10. Determination of Potassium, K Determination of Sodium, Na	In House Method NX_20 with spectrophotometry ICP-OES
	11. Calculation of Sodium Absorption Ratio, SAR	Calculated parameter (According to U.S. Dept.of Agriculture, Handbook Nº 60, 1954)

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
1. Water potable, surface and groundwater for human consumption or not *(cont.)*	12. Determination of Chlorides	ELOT 666:1983 (Argentometric method)
	13. Determination of Sulfates	In House Method NX_17 based on APHA* 4500-SO42- E, 24th Ed., 2023
	14. Determination of Nitrates	M 4500-NO3-B, APHA*, 24th Ed., 2023 (Screening method)
	15. Determination of Nitrites	M 4500-NO_2^-B APHA*, 24th Ed., 2023
	16. Determination of Ammonium, Ammonium Nitrogen	In House method NX_05 (Spectrophotometric method using Nesslerization)
	17. Determination of Free and Total Chlorine	ISO 7393-2:2017 (Colorimetric method using N,N-diethyl-1,4-phenylenediamine for routine control purposes)
	18. Determination of Total Solids, TS (103-105 °C)	APHA 2540 B, 24th Ed., 2023
	19. Determination of Total Dissolved Solids, TDS (180°C)	APHA 2540 C, 24th Ed., 2023
	20. Determination of Total Suspended Solids, TSS (103-105 °C)	APHA 2540 D, 24th Ed., 2023
	21. Determination of Chemical Oxygen Demand, COD	In House Method ΛΜΧ_04 based on ISO 15705:2022, APHA* 5220D, EPA 410.4
	22. Determination of Biochemical Oxygen Demand, BOD_5	In House Method ΛΜΧ_14 based on APHA 5210 D, 24th Ed., 2023
	23. Determination of Phosphates	In House Method NX_12 based on ISO 6878:2004, APHA* 4500-P, EPA 365.2+3
	24. Determination of Total Nitrogen	In House Method NX_18 based on EN ISO 11905-1
	25. Determination of Ammonium Nitrogen	In House Method NX_13 based on ISO 7150-1:1984, APHA* 4500-NH_3, EPA 350.1
	26. Determination of Fluoride	In House Method NX_16 based on APHA* 4500-F E, 24th Ed., 2023
	27. Determination of Hexavalent Chromium (VI)	ISO 18412:2005
	28. Determination of Permanganate Index	EN ISO 8467:1995
	29. Determination of Oil & Grease	In House Method NX_25 based on EPA 1664 B and APHA 5520 G, 24th Ed., 2023

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
1. Water potable, surface and groundwater for human consumption or not *(cont.)*	30. Determination of Hydrocarbons	In House Method NX_29 based on EPA 1664 B and APHA 5520 F, 24th Ed., 2023
	31. Determination of Phenols	In House Method NX_30 based on APHA 5530 B+C, 24th Ed., 2023
	32. Determination of Total and Free Cyanides	In House Method NX_31 based on EPA 335.2 and APHA 4500-CN B+C+E, 24th Ed., 2023
	33. Determination of Total Nitrogen Kjeldahl (TKN)	In House Method NX_33
	34. Determination of Total (TOC) and Dissolved Organic Carbon (DOC)	In House Method NX_34 based on EN 1484:1997 and APHA 5310 A+B, 24th Ed., 2023
	35. Determination of Anionic Surfactants	In House Method NX_35 based on APHA 5540 C, ASTM 2330-02, ISO 7875-1
	36. Determination of Index Langelier (LSI) Index Ryznar (RSI) Index Puckorius (PSI) Index Larson-Scold (LSCI)	Calculated, In House Method NX_37 based on ASTM-D3739-19 and Langelier W.F. (1936) Calculated, In House Method NX_38 based on APHA 2330 and Ryznar J.W. (1944) Calculated, In House Method NX_39 based on Puckorius PR and Brooke J.M. (1991) Calculated, In House Method NX_40 based on Larson T.E. and Skold R.V. (1958)
	37. Determination of Haloacetic Acids (HAA5)	In House Method NXO_04 with LC-MS/MS
2. Sea water	1. Determination of Total Phosphorus	In House Method ΛMX_06 based on ISO 6878:2004, APHA* 4500-P, EPA 365.2+3
	2. Determination of Ammonium Nitrogen	In House Method ΛMX_09 based on ISO 7150-1:1984, APHA* 4500-NH_3, EPA 350.1
	3. Determination of Oil & Grease	In House Method NX_25 based on EPA 1664 B and APHA 5520 G, 24th Ed., 2023
	4. Determination of Hydrocarbons	In House Method NX_29 based on EPA 1664 B and APHA 5520 F, 24th Ed., 2023
3. Waste water	1. Determination of pH	ELOT 658:1983
	2. Determination of Conductivity	M 2510, APHA*, 24th Ed., 2023

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
3. Waste water *(cont.)*	3. Nephelometric determination of Turbidity	In House Method ΛMX_10 based on APHA* 2130 B, 24th Ed., 2023
	4. Determination of Nitrites	M 4500-NO_2^-B APHA*, 24th Ed., 2023
	5. Determination of Total Hardness	In House Method ΛMX_19 based on ISO 6059:1984
	6. Determination of Calcium	In House Method ΛMX_16 based on ELOT 169:1978
	7. Determination of Magnesium	In House Method ΛMX_17 based on 3500-Mg B, 24th Ed., 2023
	8. Determination of Chlorides	In House Method ΛMX_18 based on ELOT 666:1983
	9. Determination of Hexavalent Chromium (VI)	In House Method ΛMX_24 based on ISO 18412:2005
	10. Determination of Anionic Surfactants	In House Method ΛMX _36 based on APHA 5540 C, ASTM 2330-02, ISO 7875-1
4. Waste water & Wastes	1. Determination of Color	APHA 2120 C, 24th Ed., 2023
	2. Determination of Total Solids, TS (103-105 °C)	APHA 2540 B, 24th Ed., 2023
	3. Determination of Total Dissolved Solids, TDS (180 °C)	APHA 2540 C, 24th Ed., 2023
	4. Determination of Total Suspended Solids, TSS (103-105 °C)	APHA 2540 D, 24th Ed., 2023
	5. Determination of Volatile Solids, VS (550 °C)	APHA 2540 E, 24th Ed., 2023
	6. Determination of Volatile Suspended Solids, VSS (550 °C)	APHA 2540 E, 24th Ed., 2023
	7. Determination of Chemical Oxygen Demand, COD	In House Method ΛMX_04 based on ISO 15705:2002, APHA* 5220D, EPA 410.4
	8. Determination of Biochemical Oxygen Demand, BOD_5	In House Method ΛMX_14 based on APHA 5210 D, 24th Ed., 2023
	9. Determination of Total and Composite Alkalinity	ELOT EN ISO 9963.01:1996
	10. Determination of Total Phosphorus	In House Method ΛMX_06 based on ISO 6878, APHA* 4500-P, EPA 365.2+3
	11. Determination of Phosphates	In House Method ΛMX_07 based on ISO 6878:2004, APHA* 4500-P, EPA 365.2+3
	12. Determination of Total Nitrogen	In House Method ΛMX_12 based on EN ISO 11905-1:1997

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
4. Waste water & Wastes *(cont.)*	13. Determination of Nitrogen Nitrate, NO_3-N	In House Method ΛMX_15
	14. Determination of Ammonium Nitrogen	In House Method ΛMX_09 based on ISO 7150-1:1984, APHA* 4500-NH_3, EPA 350.1
	15. Determination of Free and Total Chlorine	ISO 7393-2:2017 (Photometric determination using N, N-diethyl-1,4-phenylenediamine for routine control purposes)
	16. Determination of Fluoride	In House Method ΛMX_11 based on APHA* 4500-F E, 24th Ed., 2023
	17. Determination of Sulfates	In House Method ΛMX_22 based on EPA 375.4 and APHA 4500-SO_4^{2-} E
	18. Determination of Oil & Grease	In House Method ΛMX_25 based on EPA 1664 B and APHA 5520 G, 24th Ed., 2023
	19. Determination of Hydrocarbons	In House Method ΛMX _29 based on EPA 1664 B and APHA 5520 F, 24th Ed., 2023
	20. Determination of Phenols	In House Method ΛMX _30 based on APHA 5530 B+C, 24th Ed., 2023
	21. Determination of Total Cyanides	In House Method ΛMX _31 based on EPA 335.2 and APHA 4500-CN B+C+E,
	22. Determination of Total Nitrogen Kjeldahl (TKN)	In House Method ΛMX _33
	23. Determination of Total (TOC) and Dissolved Organic Carbon (DOC)	In House Method ΛMX _34 based on EN 1484:1997 and APHA 5310 A+B, 24th Ed., 2023
5. Water potable, surface and groundwater for human consumption or not, Waste water, Reuse water (of low organic load without digestion)	1. Determination of elements with ICP-OES: Antimony, Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Strontium, Vanadium, Zinc, Tin	In House Method NX_19 with spectrophotometry ICP-OES
	2. Determination of Potassium, K Determination of Sodium, Na	In House Method ΛMX_20 with spectrophotometry ICP-OES
	3. Calculation of Sodium Absorption Ratio, SAR	Calculated parameter (According to U.S. Dept.of Agriculture, Handbook Nº 60, 1954)

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
6. Water, Waste water, Reuse water (of low organic load without digestion)	1. Determination of Mercury, Hg	In House Method NX_24 with spectrophotometry ICP-OES and hydrides generator
7. Sludge, sediments, solid wastes	1. Determination of Total Solids (103-105 °C)	APHA 2540 G, 24th Ed., 2023
	2. Determination of Volatile Solids (550 °C)	APHA 2540 G, 24th Ed., 2023
8. Soil	1. Determination of pH	ISO 10390:2021
	2. Determination of electrical conductivity	ISO 11265:1994
9. Water potable, surface and Groundwater for human consumption or not	1. Residue-determination of agricultural drugs: Acetamiprid, Acibenzolar-S-methyl, Alachlor, Alanycarb, Aldicarb-sulfone (Aldoxycarb), Ametryn, Atrazine, Azaconazole, Azamethiphos, Azoxystrobin, Benalaxyl, Benthiavalicarb-isopropyl, Bifenox, Bitertanol, Boscalid, Bromacil, Bromoxynil, Bromuconazole, Bupirimate, Buprofezin, Butralin, Buturon, Carbaryl (NAC), Carbendazim, Carbofuran, Carbofuran-3-hydroxy (3-Hydroxycarbofuran), Carpropamid, Chlorfenvinphos, Chlorpyrifos, Chlorpyrifos-methyl, Climbazole, Clodinafop-propargyl, Clomazone, Cloquintocet-mexyl, Clothianidin, Coumaphos, Cyazofamid, Cyproconazole, Cyprodinil, Desmetryn, Diazinon, Diclobutrazol, Diclosulam, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dinocap, Diuron (DCMU), DMST, Epoxiconazole, Ethion, Etrimfos, Fenamidone, Fenamiphos-sulfoxide, Fenarimol, Fenbuconazole, Fenoxycarb, Fenthion-oxon-sulfone, Fenthion-sulfone, Flufenacet, Fluquinconazole, Flusilazole, Flutolanil, Fosthiazate, Hexaconazole, Hexaflumuron, Hexythiazox, Imidacloprid, Indoxacarb, Isoprothiolane, Isoxathion, Linuron, Malaoxon, Mefenacet, Mepanipyrim, Mephosfolan, Mepronil, Metalaxyl, Metalaxyl-M, Metconazole, Methidathion, Methoxyfenozide, Metolachlor, Metoxuron, Monocrotophos, Monolinuron, Myclobutanil, Nuarimol, Oxycarboxin, Oxydemeton-methyl, Paclobutrazol, Paraoxon-ethyl, Penconazole, Pencycuron, Pendimethalin, Phenthoate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosphamidon, Picolinafen, Picoxystrobin, Piperonyl-butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos-methyl, Prochloraz, Profenofos, Prometryn, Propachlor, Propanil, Propiconazole, Propoxur, Propyzamide, Pyraclostrobin, Pyrazophos, Pyridaphenthion, Pyrifenox, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quizalofop-ethyl, Quizalofop-methyl, Quizalofop-P-ethyl, Rotenone, Simazine, Tebuconazole, Terbuthylazine, Terbutryn, Tetraconazole, Thiacloprid, Thionazin, Tolclofos-methyl, Triadimefon, Triadimenol, Triasulfuron, Triazamate, Triazophos, Trifloxystrobin, Triflumizole, Triflumuron	In House multi-residue method NXO_02 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS
	2. Residue-determination of agricultural drugs: Acetochlor, Acibenzolar-S-methyl, Alachlor, alpha-BHC, Ametryn, Amitraz, Atrazine, Azaconazole, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, beta-BHC, beta-Endosulfan, Bifenazate, Bifenox, Bifenthrin, Bitertanol, Boscalid, Bromophos, Bromophos-ethyl, Bromopropylate, Bromuconazole, Bupirimate, Buprofezin, Carbofuran, Carbophenothion, Carfentrazone-ethyl, Chlorfenson, Chlorpropham, Chlorpyrifos, Chlorfenvinphos, Clomazone, Clothianidin, Coumaphos, Cyfluthrin beta, Cyproconazole, Cyprodinil, delta-BHC, Dicloran, Diclobutrazol, Diclofop-methyl, Diclorvos, Dicofol deg. (4,4'-Dichlorobenzophenone), Dicrotophos, Dieldrin, Diethofencarb, Difenoconazole, Dimethoate, Dimethomorph, Diniconazole, Endosulfan-alpha, Endosulfan sulfate, Epoxiconazole, Ethion, Etofenprox, Etrimfos, Fenarimol, Fenitrothion, Fenvalerate, Fludioxonil, Flusilazole, Flutolanil, Fluvalinate, Heptachlor-exo-epoxide, Iprodione, lambda-Cyhalothrin, Leptophos, Linuron, Malathion, Metalaxyl, Methidathion, Methoxychlor,	In House multi-residue method NXO_02 employing Gas Chromatography-Mass Spectrometry GC-MS/MS

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
9. Water potable, surface and Groundwater for human consumption or not *(cont.)*	Metolachlor, Myclobutanil, o,p'-DDD, o,p'-DDT, Oxyfluorfen, p,p'-DDD, p,p'-DDE, p,p'-DDT, Paclobutrazol, Parathion, Parathion-methyl, Penconazole, Pendimethalin, Permethrin, Phenthoate, Phosalone, Phosmet, Piperonyl butoxide, Pirimicarb, Pirimiphos-methyl, Procymidone, Profenofos, Propachlor, Propanil, Propyzamide, Pyrazophos, Pyridafenthion, Pyrimethanil, Quinalphos, Tebuconazole, Tebufenpyrad, Tolclofos-methyl, trans-Chlordane, Triadimefon, Triazophos, Tricyclazole, Triflumizol, Vinclozolin	In House multi-residue method NXO_02 employing Gas Chromatography-Mass Spectrometry GC-MS/MS
	3. Determination of trihalomethanes and halogenated volatile organic compounds in water. • Trihalomethanes Tribromomethane (Bromoform), Trichloromethane (Chloroform), Bromodichloromethane, Dibromochloromethane • 1,2 Dichloroethane • Trichloroethylene • Tetrachloroethylene	APHA 6232B, 24th Edition 2023 (Gas Chromatography GC/ECD)
	4. Determination Polycyclic Aromatic Hydrocarbons (PAHs): Anthracene, Benz[*a*]anthracene, Benz[*a*]pyrene, Benzo[*b*]fluoranthene, Benzo[*k*]fluoranthene, Benzo[*ghi*]perylene, Chrysene, Dibenz[*a*,*h*]anthracene, Fluoranthene, Indeno[1,2,3-*cd*]pyrene, Pyrene	In House multi-residue method NXO_03 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EPA 550.1
10. Waste water	1. Residue-determination of agricultural drugs: Acetamiprid, Acibenzolar-S-methyl, Alanycarb, Aldicarb-sulfone (Aldoxycarb), Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos-methyl, Azoxystrobin, Benalaxyl, Benthiavalicarb-isopropyl, Bifenthrin, Bitertanol, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Butralin, Buturon, Carbaryl (NAC), Carbendazim, Carbofuran, Carbofuran-3-hydroxy (3-Hydroxycarbofuran), Carbophenothion, Carpropamid, Chlorfenvinphos, Chlorpyrifos, Chlorpyrifos-methyl, Climbazole, Clodinafop-propargyl, Clofentezine, Clomazone, Cloquintocet-mexyl, Cloransulam-methyl, Clothianidin, Coumaphos, Cyazofamid, Cymoxanil, Cypermethrin, Cyproconazole, Cyprodinil, Deet, Deltamethrin, Demeton-S-methyl-sulfone, Desmetryn, Diazinon, Diclobutrazol, Diclosulam, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Diuron (DCMU), DMST, Epoxiconazole, Ethion, Etofenprox, Etrimfos, Famoxadone, Fenamidone, (E)-Fenpyroximate, Fenarimol, Fenbuconazole, Fenoxycarb, Fenthion-oxon-sulfone, Fludioxonil, Flufenacet, Flufenoxuron, Fluquinconazole, Flusilazole, Flutolanil, Fosthiazate, Furathiocarb, Hexaconazole, Hexaflumuron, Hexythiazox, Indoxacarb, Iprovalicarb, Isoprothiolane, Isoxathion, Kresoxim-methyl, Lambda-Cyhalothrin, Linuron, Malaoxon, Malathion, Mefenacet, Mepanipyrim, Mephosfolan, Mepronil, Metalaxyl, Metalaxyl-M, Metconazole, Methidathion, Methiocarb-sulfoxide, Methomyl, Methoxyfenozide, Metolachlor, Metoxuron, Monocrotophos, Monolinuron, Myclobutanil, Nuarimol, Oxadixyl, Oxamyl, Oxycarboxin, Paclobutrazol, Paraoxon-ethyl, Paraoxon-methyl, Penconazole, Pencycuron, Permethrin, Phenthoate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosphamidon, Picolinafen, Picoxystrobin, Piperonyl-butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos-methyl, Prochloraz, Profenofos, Prometryn, Propanil, Propargite, Propiconazole, Propoxur, Propyzamide, Pyraclostrobin, Pyrazophos, Pyridaphenthion, Pyrifenox, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quizalofop-ethyl, Quizalofop-methyl, Quizalofop-P-ethyl, Rotenone, Tau-Fluvalinate, Tebuconazole, Tebufenozide, Teflubenzuron, Terbuthylazine, Terbutryn, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thidiazuron, Triadimefon, Triadimenol, Triasulfuron, Triazamate, Triazophos, Trifloxystrobin, Triflumizole, Triflumuron	In House multi-residue method NXO_02 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
11. Sodium Hypochlorite Solutions	Determination of Active Chlorine	EN 901:2013
12. Olive Oil, Olive Pomace oils	1. Determination of Acidity	COI/T.20/Doc. No 34 as in force
	2. Absorption coefficient K for λ=232 nm and 268 nm and Absorption coefficient difference (ΔK)	COI/T.20/Doc. No 19 as in force
	3. Determination of Waxes - Alkylesters	COI/T.20/Doc. No 28 as in force
	4. Determination of the difference between actual and theoretical content of triacylglycerols with ECN 42	COI/T.20/Doc. No 20 as in force
	5. Determination of the composition of Sterols and triterpene Dialcohols	COI/T.20/Doc. No 26 as in force
	6. Determination of the Aliphatic Alcohols	COI/T.20/Doc. No 26 as in force
	7. Determination of the percentage content of 2-glycerol-monopalmitate	COI/T.20/Doc. No 23 as in force
	8. Determination of the composition of di- and tri-acylglycerol by capillary column gas chromatography in vegetable oils	COI/T.20/Doc. No 32 as in force
13. Olive Oil	1. Determination of phenolic compounds by SPE-HPLC-DAD	COI/T.20/Doc. No 29, method 2 as in force
14. Vegetable fats and oils	1. Determination of Peroxide value	COI/T.20/Doc. No 35 as in force
	2. Determination of moisture content and volatile in vegetable fats and oils	ISO 662:2016
	3. Determination of content of insoluble substances in vegetable fats and oils	ISO 663:2017 Ed. 5
	4. Determination of methyl esters of fatty acids	COI/T.20/Doc. No 33 as in force
	5. Determination of phthalates and adipate esters (Plasticisers) benzyl-butyl-phthalate (BBP), bis-(2-ethylhexyl)-adipate (DEHA), bis-(2-ethylhexyl)-phthalate (DEHP), dibutyl-adipate (DBA), dibutyl-phthalate (DBP), diethyl-phthalate (DEP), diisobutyl-phthalate (DiBP), dimethyl-phthalate (DMP), di-n-octyl-phthalate (DnOP)	In house multiresidue method, ΛX_06, with Gas Chromatography-Mass Spectometry GC-MS/MS.
	6. Determination Polycyclic Aromatic Hydrocarbons (PAHs): Anthracene, Benz[*a*]anthracene, Benz[*a*]pyrene, Benzo[*b*]fluoranthene, Benzo[*k*]fluoranthene, Benzo[*ghi*]perylene, Chrysene, Dibenz[*a*,*h*]anthracene, Fluoranthene, Indeno[1,2,3-*cd*]pyrene, Pyrene	In house multiresidue method, ΛX_16, emloying Gas Chromatography-Mass Spectometry GC-MS/MS
	7. Determination of 2- & 3-MCPD esters of fatty acids and the esters of the fatty acid glycosidol with acid transesterification	In house multiresidue method, ΛX_17 based on AOCS Cd 29 a-13, emloying Gas Chromatography-Mass Spectometry GC-MS/MS
	8. Determination of Mineral Oils (MOSH-MOAH)	In House Method ΛX_18 based on EN 16995:2017 and JRC EUR 29666 Dec. 2019

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
15. Vegetable oils	1. Determination of stigmastadienes	COI/T.20/Doc. No 11 as in force
16. High fat content products of plant origin: • Olive oil, vegetable fats and oils • Olives, Avocado etc. • Oil seeds (sesame, soybean etc.) *(ESYD G-FYTOPROST/01/02/20-10-2016-PRODUCT CATEGORY 4.2-4 & SANTE/ 11312/2021)*	1. Residue-determination of agricultural drugs: Acephate, Acetamiprid, Acibenzolar-S-methyl, Acrinathrin, Alachlor, Alanycarb, Aldicarb, Aldicarb-sulfone (Aldoxycarb), Ametoctradin, Ametryn, Atrazine, Abamectin, Azaconazole, Azamethiphos, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Beflubutamid, Benalaxyl, Bendiocarb, Benfuracarb, Benthiavalicarb-isopropyl, Bifenthrin, Bitertanol, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butocarboxim-sulfoxide, Butralin, Buturon, Cadusafos, Carbaryl (NAC), Carbendazim, Carbofuran, Carbofuran-3-hydroxy (3-Hydroxycarbofuran), Carbofuran-3-keto, Carbosulfan, Carboxin, Carfentrazone-ethyl, Carpropamid, Chlorantraniliprole, Chlorfenvinphos, Chloridazon, Chlorotoluron, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Cinidon-ethyl, Climbazole, Clodinafop-propargyl, Clofentezine, Clomazone, Cloquintocet, Cloquintocet-mexyl, Clothianidin, Coumaphos, Cyanazine, Cyanofenphos, Cyazofamid, Cycloate, Cyflufenamid, Cypermethrin, Cyproconazole, Cyprodinil, Deet, Deltamethrin, Demeton-S-methyl, Demeton-S-methyl-sulfone, Desmedipham, Desmetryn, Diazinon, Dichlofenthion, Dichlorvos, Diclobutrazol, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Diflufenican, Dimefuron, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Diphenamid, Disulfoton-sulfone, Disulfoton-sulfoxide, Diuron (DCMU), DMST, Epoxiconazole, Etaconazole, Ethiofencarb, Ethiofencarb-sulfone, Ethiofencarb-sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etofenprox, Etoxazole, Etrimfos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenamiphos-sulfone, Fenamiphos-sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorazol-ethyl, Fenitrothion, Fenobucarb, Fenoxaprop-P-ethyl, Fenoxycarb, Fenpiclonil, Fenpropathrin, Fensulfothion, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-sulfone, Fenthion-sulfoxide, Fenthion-oxon-sulfoxide, Fenvalerate, Fipronil, Fluazifop-P-butyl, Fluchloralin, Flufenacet, Flufenoxuron, Flumetralin, Fluometuron, Fluopicolide, Fluopyram, Fluoxastrobin, Flupyradifurone, Fluquinconazole, Fluroxypyr-1-methylheptylester, Flurprimidol, Flusilazole, Flutolanil, Flutriafol, Fluxapyroxad, Fonofos, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Halofenozide, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazamethabenz-methyl, Imidacloprid, Indoxacarb, Iodsulfuron-methyl–sodium, Iprobenfos, Iprovalicarb, Isazofos, Isofenphos, Isofenphos-methyl, Isoprocarb, Isopropalin, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxaflutole, Isoxathion, Lenacil, Linuron, Lufenuron, Malaoxon, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mefenpyr-diethyl, Mefentrifluconazole, Mepanipyrim, Mephosfolan, Mepronil, Metaflumizone, Metalaxyl, Metalaxyl-M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methidathion, Methiocarb, Methiocarb-sulfone, Methiocarb-sulfoxide, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metoxuron, Metrafenone, Metribuzin, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Napropamide, Neburon, Nitenpyram, Nitralin, Nitrothal-isopropyl, Norflurazon, Novaluron, Nuarimol, Omethoate, Ofurace, Oxadiazon, Oxadixyl, Oxamyl, Oxycarboxin, Oxydemeton-methyl, Paclobutrazol, Paraoxon-ethyl, Penconazole, Pencycuron, Pendimethalin, Permethrin, Pethoxamid, Phenmedipham, Phenthoate, Phorate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoxaden, Piperonyl-butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimicarb-desmethyl-formamido, Pirimiphos-ethyl, Pirimiphos-methyl, Prochloraz, Profenofos, Promecarb, Prometryn, Propachlor, Propanil, Propaquizafop, Propargite, Propazine, Propetamphos, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinalphos, Quinoxyfen,	In house multi-residue method, ΛΧ_05 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on EN 15662:2018

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
16. High fat content products of plant origin: • Olive oil, vegetable fats and oils • Olives, Avocado etc. • Oil seeds (sesame, soybean etc.) *(ESYD G-FYTOPROST/01/02/20-10-2016-PRODUCT CATEGORY 4.2-4 & SANTE/ 11312/2021)* *(cont.)*	Quizalofop-ethyl, Quizalofop-methyl, Quizalofop-P-ethyl, Rotenone, Silthiofam, Simazine, Simeconazole, Spirodiclofen, Spiromesifen, Spinosyn A, Spinosyn D, Spirotetramat, Sulfotep, Tau-Fluvalinate, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Terbufos, Terbumeton, Terbuthylazine, Terbutryn, Tetraconazole, Tetramethrin, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb, Thiofanox-sulfone, Thiofanox-sulfoxide, Thionazin, Thiophanate-methyl, Tolclofos-methyl, Triadimefon, Triadimenol, Triazamate, Triazophos, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Triforine, Vamidothion, Zoxamide	In house multi-residue method, ΛX_05 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on EN 15662:2018
	2. Residue-determination of agricultural drugs: Acetochlor, Acibenzolar-S-methyl, Aclonifen, Alachlor, Aldrin, Ametryn, Aminocarb, Atrazine, Azaconazole, Azamethiphos, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Benalaxyl-M, Bendiocarb, Benfluralin, Benthiavalicarb_Isopropyl, BHC-alpha, BHC-beta, BHC-delta, BHC-gamma (Lindane), Bifenazate, Bifenthrin, 2-Biphenylol_(Biphenyl-2-ol), Biphenyl, Bitertanol, Boscalid, Bromocyclen, Bromophos-ethyl, Bromophos-methyl, Bromopropylate, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butralin, Cadusafos, Carbaryl, Carbofuran, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorbenzilat, Chlordane-isomers, Chlorfenapyr, Chlorfenvinphos, Chlorfenson, Chloroneb, Chlorpropham, Chlorpyrifos-ethyl, Chlorpyrifos-methyl, Chlorthal-dimethyl, Cinidon-ethyl, Clomazone, Coumaphos, Cyanofenphos, Cyanophos, Cyflufenamid, Cyfluthrin-beta, Cyhalothrin-lambda, Cypermethrin, Cypermethrin-alpha, Cyproconazole, Cyprodinil, DDD-o,p', DDD-p,p', DDE-p,p', DDT-p,p, DDT-o,p', Deltamethrin, Diazinon, Dichlobenil, Dichlofenthion, Dichloran, Dichlorvos, Diclobutrazol, Diclofop-methyl, Dicofol, Dicrotophos, Dieldrin, Diethofencarb, Difenoconazole, Diflufenican, Dimethenamid, Dimethoate, Dimethomorph, Diniconazole, Diphenamid, Disulfoton, Endosulfan-alpha, Endosulfan-beta, Endosulfan-sulfate, Endrin, Endrin-ketone, EPN, Epoxiconazole, EPTC, Ethafluralin, Ethiofencarb, Ethion, Ethofumesate, Ethoprophos, Etofenprox, Etridiazole, Etrimfos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenarimol, Fenbuconazole, Fenchlorphos, Fenitrothion, Fenoxycarb, Fenobucarb, Fenson, Fensulfothion, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-sulfone, Fenthion-sulfoxide, Fenvalerate, Fipronil, Fluazifop-P-butyl, Fluchloralin, Flucythrinate, Fludioxonil, Flumioxazin, Fluopicolide, Flupyradifurone, Fluquinconazole, Flusilazole, Flutolanil, Flutriafol, Fluvalinate, Folpet, Fonofos, Formothion, Fosthiazate, Heptachlor, Heptachlor-endo-epoxide, Heptachlor-exo-epoxide, Hexachlorobenzene Hexazinone, Hexythiazox, Imazalil, Indoxacarb, Iodfenphos, Iprobenfos, Iprodione, Iprovalicarb, Isazophos, Isocarbophos, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb, Isoprothiolane, Kresoxim-methyl, Lenacil, Leptophos, Linuron, Malathion, Mefenacet, Mefenpyr-diethyl, Mefentrifluconazole, Mepanipyrim, Mepronil, Metalaxyl, Methacrifos, Methamidophos, Methidathion, Methiocarb, Methoxychlor, Metolachlor, Metribuzin, Mevinphos, Mirex, Monocrotophos, Myclobutanil, Nitrofen, Nitrothal-isopropyl, Oxyfluorfen, Oxadiazon, Oxadixyl Paclobutrazol, Parathion-ethyl, Parathion-methyl, Penconazole, Pendimethalin, Permethrin, Phenthoate, Phorate, Phosalone, Phosmet, Phosphamidon, Piperonyl-butoxide, Pirimicarb, Pirimiphos-methyl, Procymidone, Profenofos, Promecarb, Prometryn, Propachlor, Propanil, Propargite, Propazine, Propetamphos, Propham, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Prothiophos, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridafenthion, Pyridaben, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinalphos, Quinoxyfen, Quintozene, Simazine, Simeconazole, Sulfotep, Sulprofos, Tebuconazole, Tebufenpyrad, Tebuthiuron, Tefluthrin, Terbuthylazine, Terbufos, Terbutryn, Tetraconazole, Tetradifon, Tetramethrin, Thiometon, Tolclofos-methyl, Transfluthrin, Triadimefon, Triazophos, Trichloronate, Trifloxystrobin, Triflumizole, Trifluralin, Triticonazole, Uniconazole-P, Vamidothion, Vinclozolin, Zoxamide	In house multi-residue method, ΛX_05 employing Gas Chromatography-Mass Spectometry GC-MS/MS, based on EN 15662:2018

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
17. Fruits and vegetables with high water content and high acid content (stone fruits, pome fruits, fruiting vegetables, leaf vegetables, citrus fruits, root and tuber vegetables, stem vegetables, small fruits, grape, tropical fruits, legume vegetables, brassica vegetables, bulb vegetables, fresh herbs, miscellaneous fruits as referred to Regulations EU 396/2005, EU 178/2006 and Guidance Document *ESYD G-FYTOPROST/01/02/20-10-2016 & SANTE/ 11312/2021)*	1. Residue-determination of agricultural drugs: (E)-Fenpyroximate, Acetamiprid, Acibenzolar-S-methyl, Acrinathrin, Aldicarb-sulfone, (Aldoxycarb), Ametoctradin, Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Beflubutamid, Benalaxyl, Bendiocarb, Bentazone, Benthiavalicarb-isopropyl, Bifenox, Bifenthrin, Bitertanol, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butralin, Buturon, Cadusafos, Carbaryl (NAC), Carbendazim, Carbofuran-3-hydroxy (3-Hydroxycarbofuran), Carbofuran-3-keto, Carbophenothion, Carboxin, Carfentrazone-ethyl, Carpropamid, Chlorantraniliprole, Chlorfenapyr, Chlorfenvinphos, Chlorotoluron, Chlorpyrifos, Climbazole, Clodinafop-propargyl, Clofentezine, Clomazone, Cloquintocet, Cloquintocet-mexyl, Clothianidin, Coumaphos, Cyanazine, Cyazofamid, Cycloate, Cycloxydim, Cyflufenamid, Cyproconazole, Cyprodinil, Deet, Deltamethrin, Demeton-S-methyl, Demeton-S-methyl-sulfone, Desmedipham, Desmetryn, Diazinon, Diclobutrazol, Diethofencarb, Difenoconazole, Diflufenican, Dimefuron, Dimethenamid, Dimethoate, Dimethomorph-1, Dimoxystrobin, Diniconazole, Diphenamid, Dipropetryn, Disulfoton-sulfone, Disulfoton-sulfoxide, Diuron (DCMU), Emamectin benzoate, Epoxiconazole, Etaconazole, Ethiofencarb, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etofenprox, Etoxazole, Etrimfos, Famoxadone, Famphur Fenamidone, Fenamiphos, Fenamiphos-sulfone, Fenamiphos-sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorazol-ethyl, Fenhexamid, Fenoxaprop-P-ethyl, Fenoxycarb, Fenpiclonil, Fenpropathrin, Fenpropidin, Fenpropimorph, Fensulfothion, Fenthion, Fenthion-sulfone, Fenthion-sulfoxide, Fipronil, Fluazifop-P-butyl, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluopyram, Fluoxastrobin, Fluquinconazole, Fluroxypyr-1-methylheptylester, Flusilazole, Flutolanil, Fluxapyroxad, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz-methyl, Indoxacarb, Iodsulfuron - methyl –sodium, Iprovalicarb, Isazofos, Isofenphos, Isofenphos-methyl, Isoprocarb, Isoproturon, Isoxaben, Isoxaflutole, Isoxathion, Lenacil, Linuron, Lufenuron, Malaoxon, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mephosfolan, Mepronil, Metalaxyl, Metalaxyl-M, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methidathion, Methiocarb-sulfone, Methiocarb-sulfoxide, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metoxuron, Metrafenone, Metribuzin, Monolinuron, Monuron, Myclobutanil, Napropamide, Norflurazon, Novaluron, Nuarimol, Ofurace, Oxadiazon, Paclobutrazol, Paraoxon-ethyl, Penconazole, Pencycuron, Pendimethalin, Permethrin, Pethoxamid, Phenmedipham, Phenthoate, Phorate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosphamidon, Phoxim, Picoxystrobin, Pinoxaden, Piperonyl-butoxide, Pirimicarb, Pirimiphos-methyl, Prochloraz, Profenofos, Promecarb, Propachlor, Propanil, Propaquizafop, Propargite, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quizalofop-ethyl, Quizalofop-methyl, Quizalofop-P-ethyl, Rotenone, Silthiofam, Simazine, Spinosyn A, Spinosyn D, Spirotetramat, Spiroxamine, Sulfotep, Tebuconazole, Tebufenpyrad, Tebuthiuron, Tepraloxydim, Terbumeton, Terbuthylazine, Tetraconazole, Tetramethrin, Thionazin, Tolclofos-methyl, Tralkoxydim, Triadimefon, Triazamate, Triazophos, tribenuron methyl, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Zoxamide	In house multi-residue method, TX_09 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on EN 15662:2018
	2. Residue-determination of agricultural drugs: Acetochlor, Aclonifen, Alachlor, Aldicarb, Ametryn, Aminocarb, Atrazine, Azaconazole, Azinphos-ethyl, Azoxystrobin, Benalaxyl, Bendiocarb, BHC-alpha, BHC-beta, BHC-delta, Bifenazate, Bifenox, Bitertanol, Bromophos, Bromophos-ethyl, Bromopropylate Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butralin, Cadusafos, Carbofuran, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorbenzilat, Chlordane isomers,	In house multi-residue method, TX_09 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 15662:2018

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
17. Fruits and vegetables with high water content and high acid content (stone fruits, pome fruits, fruiting vegetables, leaf vegetables, citrus fruits, root and tuber vegetables, stem vegetables, small fruits, grape, tropical fruits, legume vegetables, brassica vegetables, bulb vegetables, fresh herbs, miscellaneous fruits as referred to Regulations EU 396/2005, EU 178/2006 and Guidance Document *ESYD G-FYTOPROST/01/02/20-10-2016 & SANTE/ 11312/2021)*	Chlorfenapyr, Chlorfenson, Chlorfenvinphos, Chlorpyrifos ethyl, Chlorpyrifos-methyl, Chlorthal-dimethyl, Chlozolinate, Cinidon-ethyl, Clomazone, Coumaphos, Cyanophos, Cyfluthrin-beta, Cyhalofop-butyl, Cypermethrin-alpha, Cyprodinil, DDD-o,p', DDD-p,p', DDE-o,p', DDE-p,p', DDT-p,p', Deltamethrin, Diazinon, Dichlofenthion, Dichloran, Dichlorvos, Diclobutrazol, Diclofop-methyl, Dicrotophos, Dieldrin, Diethofencarb, Difenoconazole, Diflufenican, Dimethenamid, Dimethoate, Dimethomorph, Diphenamid, Diphenylamine, Disulfoton, Endosulfan-beta, Endrin, Endrin-ketone, EPN, Epoxiconazole, Ethafluralin, Ethiofencarb, Ethion, Ethofumesate, Ethoprophos, Ethylan (Perthane), Etofenprox, Etridiazole, Etrimfos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenarimol, Fenbuconazole, Fenchlorphos, Fenitrothion, Fenobucarb, Fenpropathrin, Fenpropimorph, Fenson, Fensulfothion, Fenthion, Fenthion-oxon, Fenvalerate, Fipronil, Fluazifop-P-butyl, Fluchloralin, Flucythrinate, Flumioxazin, Flusilazole, Flutolanil, Flutriafol, Fonofos, Fosthiazate, Halfenprox, Heptachlor, Hexazinone, Imazalil, Indoxacarb, Iodfenphos, Iprobenfos, Iprodione, Iprovalicarb, Isazophos, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb, Isoprothiolane, Isopyrazam, Isoxathion, Kresoxim-methyl, Lenacil, Leptophos, Linuron, Malathion, Mefenacet, Mefenpyr-diethyl, Mepanipyrim, Mepronil, Metalaxyl, Methacrifos, Methamidophos, Methidathion, Methiocarb, Methoxychlor, Metolachlor, Metribuzin, Mirex, Monocrotophos, Myclobutanil, Nitrofen, Nitrothal-isopropyl, Norflurazon, Oxadiazon, Oxadixyl, Paclobutrazol, Parathion, Parathion-ethyl, Parathion-methyl, Pendimethalin, Permethrin, Phenthoate, Phorate, Phosalone, Phosphamidon, Picolinafen, Piperonyl-butoxide, Pirimicarb, Pirimiphos-methyl, Procymidone, Profenofos, Promecarb, Prometryn, Propachlor, Propaquizafop, Propargite, Propazine, Propetamphos, Propiconazole, Propoxur, Propyzamide, Prothiophos, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridafenthion, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quintozene, Quizalofop-ethyl, Simazine, Simeconazole, Spiroxamine, Sulfotep, Sulprofos, Tebuconazole, Tebufenpyrad, Tefluthrin, Terbufos, Terbutryn, Tetraconazole, Tetradifon, Tetramethrin, Tetrasul, Thiamethoxam, Tolclofos-methyl, Triadimefon, Triazophos, Trichloronate, Trifloxystrobin, Triflumizole, Triticonazole, Uniconazole-P, Vinclozolin	In house multi-residue method, TX_09 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 15662:2018
(cont.)	3. Determination of Quaternary Ammmonium Compounds (QACs): BAC-10, BAC-12, BAC-14, BAC-16, DDAC-10.	In house multi-residue method TX_13 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on, EN 15662:2018
	4. Determination of Dithiocarbamate residues disulfides of thiurami	In house multi-residue method TX_12 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 12396-1:1999
18. Cereals and legumes (Guidance Document *ESYD G-FYTOPROST/01/02/20-10-2016 & SANTE/ 11312/2021)*	1. Residue-determination of agricultural drugs: (E)-Fenpyroximate, Acetamiprid, Acibenzolar-S-methyl, Acrinathrin, Ametoctradin, Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos-methyl, Azoxystrobin, Beflubutamid, Benalaxyl, Bendiocarb, Bentazone, Benthiavalicarb-isopropyl, Bifenazate, Bitertanol, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butralin, Buturon, Cadusafos, Carbaryl (NAC), Carbofuran, Carbofuran-3-hydroxy (3-Hydroxycarbofuran), Carbofuran-3-keto, Carbophenothion, Carbosulfan, Carboxin, Carfentrazone-ethyl, Carpropamid, Chlorantraniliprole, Chlorfenapyr, Chlorfenvinphos, Chloridazon, Chlorotoluron, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Cinidon-ethyl, Clethodim, Climbazole, Clodinafop-propargyl, Clofentezine, Clomazone, Cloquintocet-mexyl, Clothianidin, Coumaphos, Cyanazine, Cyanofenphos, Cyazofamid, Cycloate, Cycloxydim, Cyflufenamid, Cymoxanil, Cypermethrin, Cyproconazole, Cyprodinil, Deet, Deltamethrin, Demeton-S-methyl, Demeton-S-methyl-sulfone, Desmetryn, Diafenthiuron, Diazinon, Dichlofenthion, Dichlofluanid,	In house multi-residue method, TX_10 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on EN 15662:2018

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
18. Cereals and legumes (Guidance Document *ESYD G-FYTOPROST/01/02/20-10-2016 & SANTE/ 11312/2021)* *(cont.)*	Dichlorvos, Diclobutrazol, Diclofop-methyl, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Diflufenican, Dimefuron, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Diphenamid, Dipropetryn, Disulfoton-sulfone, Disulfoton-sulfoxide, Diuron (DCMU), DMST, Dodemorph, Emamectin benzoate, EPN, Epoxiconazole, EPTC, Etaconazole, Ethiofencarb, Ethiofencarb-sulfone, Ethiofencarb-sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etofenprox, Etoxazole, Etrimfos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenamiphos-sulfone, Fenamiphos-sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorazol-ethyl, Fenhexamid, Fenitrothion, Fenobucarb, Fenoxaprop-P-ethyl, Fenoxycarb, Fenpiclonil, Fenpropathrin, Fenpropidin, Fenpropimorph, Fensulfothion, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-oxon-sulfoxide, Fenthion-sulfone, Fenthion-sulfoxide, Fenvalerate, Fipronil, Flonicamid, Florasulam, Fluazifop-P-butyl, Fluazinam, Flufenacet, Flufenoxuron, Flumetralin, Fluometuron, Fluopicolide, Fluopyram, Fluoxastrobin, Fluquinconazole, Fluroxypyr-1-methylheptylester, Flurprimidol, Flusilazole, Flutolanil, Flutriafol, Fluxapyroxad, Fonofos, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz-methyl, Imidacloprid, Indoxacarb, Iodsulfuron -methyl –sodium, Iprobenfos, Iprovalicarb, Isazofos, Isofenphos, Isofenphos-methyl, Isoprocarb, Isopropalin, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malaoxon, Mandipropamid, Mecarbam, Mefenacet, Mefenpyr-diethyl, Mepanipyrim, Mephosfolan, Mepronil, Metaflumizone, Metalaxyl, Metalaxyl-M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methidathion, Methiocarb, Methiocarb-sulfone, Methiocarb-sulfoxide, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metoxuron, Metrafenone, Metribuzin, Mevinphos, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Napropamide, Nitenpyram, Nitralin, Nitrothal-isopropyl, Norflurazon, Novaluron, Nuarimol, Ofurace, Oxadiazon, Oxycarboxin, Oxydemeton-methyl, Paclobutrazol, Paraoxon-ethyl, Penconazole, Pencycuron, Pendimethalin, Permethrin, Pethoxamid, Phenmedipham, Phenthoate, Phorate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoxaden, Piperonyl-butoxide, Pirimicarb, Pirimicarb-desmethyl, Pirimicarb-desmethyl-formamido, Pirimiphos-ethyl, Pirimiphos-methyl, Prochloraz, Profenofos, Promecarb, Prometryn, Propachlor, Propamocarb, Propanil, Propaquizafop, Propargite, Propazine, Propetamphos, Propiconazole, Propoxur, Propyzamide, Prosulfocarb, Prothiophos, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinalphos, Quinoxyfen, Quizalofop-ethyl, Quizalofop-methyl, Quizalofop-P-ethyl, Rotenone, Silthiofam, Simazine, Simeconazole, Spinosyn A, Spinosyn D, Spiridoclofen, Spirotetramat, Spiroxamine, Sulfotep, Tau-fluvalinate, Tebuconazole, Tebufenpyrad, Tebuthiuron, Tepraloxydim, Terbumeton, Terbuthylazine, Tetraconazole, Tetramethrin, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb, Thiofanox-sulfone, Thiofanox-sulfoxide, Thiometon-sulfone, Thionazin, Thiophanate-methyl, Tolclofos-methyl, Tralkoxydim, Triadimefon, Tri-allate, Triazamate, Triazophos, Tribenuron methyl, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Vamidothion, Vamidothion sulfoxide, Zoxamide	In house multi-residue method, TX_10 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS, based on EN 15662:2018
	2. Residue-determination of agricultural drugs: Acetochlor, Aclonifen, Alachlor, Aldrin, Ametryn, Aminocarb, Atrazine, Azaconazole, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benfluralin, BHC-alpha, BHC-beta, BHC-delta, BHC-gamma (Lindane), Bifenazate, Bifenox, Bitertanol, Boscalid, Bromocyclen, Bromophos-ethyl, Bromophos-methyl, Bromopropylate, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butralin, Cadusafos, Carbaryl, Carbofuran, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorbenzilat, Chlordane-isomers, Chlorfenson, Chlorfenvinphos,	In house multi-residue method, TX_10 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 15662:2018

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
18. Cereals and legumes (Guidance Document *ESYD G-FYTOPROST/01/02/20-10-2016 & SANTE/ 11312/2021)* *(cont.)*	Chloroneb, Chlorothalonil, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthal-dimethyl, Chlozolinate, Cinidon-ethyl, Clomazone, Coumaphos, Cyanofenphos, Cyanophos, Cyflufenamid, Cyfluthrin-beta, Cypermethrin-alpha, Cyprodinil, DDD-o,p', DDD-p,p', DDE-o,p', DDE-p,p', DDT-o,p', DDT-p,p', Demeton-S-methyl, Diazinon, Dichlofenthion, Dichlofluanid, Dichloran, Diclobutrazol, Diclofop-methyl, Dicrotophos, Diethofencarb, Difenoconazole, Diflufenican, Dimethenamid, Dimethoate, Dimethomorph, Diphenamid, Diphenylamine, Disulfoton, Ditalimfos, Endrin, Endrin-ketone, EPN, Epoxiconazole, Ethafluralin, Ethiofencarb, Ethion, Ethofumesate, Ethoprophos, Etofenprox, Etridiazole, Etrimfos, Famoxadone, Famphur, Fenamidone, Fenamiphos, Fenarimol, Fenbuconazole, Fenchlorphos, Fenitrothion, Fenobucarb, Fenoxycarb, Fenpropathrin, Fenpropimorph, Fenson, Fensulfothion, Fenthion, Fenthion oxon, Fenthion sulfone, Fenthion sulfoxide, Fenvalerate, Fipronil, Fluazifop-P-butyl, Fluchloralin, Flucythrinate, Fludioxonil, Fluquinconazole, Flusilazole, Flutolanil, Flutriafol, Fluvalinate, Folpet, Fonofos, Fosthiazate, Furathiocarb, Halfenprox, Heptachlor, Hexachlorobenzene, Hexazinone, Indoxacarb, Iodfenphos, Iprobenfos, Iprodione, Iprovalicarb, Isazophos, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb, Isoprothiolane, Isopyrazam, Isoxathion, Kresoxim-methyl, Lenacil, Leptophos, Malathion, Mefenacet, Mefenpyr-diethyl, Mepronil, Methacrifos, Methidathion, Methiocarb, Methoxychlor, Metolachlor, Metribuzin, Mevinphos, Mirex, Monocrotophos, Myclobutanil, Nitrapyrin, Nitrofen, Nitrothal-isopropyl, Norflurazon, Oxadiazon, Oxadixyl, Paclobutrazol, Parathion-ethyl, Parathion-methyl, Pendimethalin, Permethrin, Phorate, Phosalone, Phosfolan, Phosmet, Phosphamidon, , Picolinafen, Piperonyl butoxide, Pirimicarb, Pirimiphos-methyl, Procymidone, Profenofos, Promecarb, Prometryn, Propachlor, Propanil, Propargite, Propazine, Propetamphos, Propham, Propiconazole, Propoxur, Propyzamide, Prothiofos, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridafenthion, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Pyrifenox, Quinalphos, Quinoxyfen, Quintozene, Quizalofop-ethyl, Simazine, Simeconazole, Spirodiclofen, Spiroxamine, Sulfotep, Sulprofos, Tebuconazole, Tebufenpyrad, Tebuthiuron, Tefluthrin, Terbufos, Terbutryn, Tetraconazole, Tetradifon, Tetramethrin, Tetrasul, Thiabendazole, Tolclofos-methyl, Tolylfluanid, Transfluthrin, Triadimefon, Triadimenol, Triazophos, Trichloronate, Trifloxystrobin, Triflumizole, Trifluralin, Triticonazole, Uniconazole-P, Vinclozolin, Zoxamide	In house multi-residue method, TX_10 employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 15662:2018
19. Products with high sugar content: honey, jams etc. • Honey • Raisins • Jam • Figs, molasses etc. *(ESYD G-FYTOPROST/01/02/20-10-2016-* *PRODUCT CATEGORY 4.2-3 & SANTE/ 11312/2021)*	1. Residue-determination of agricultural drugs: Acephate, Acrinathrin, Alachlor, Aldrin, Amitraz, Atrazine, Azinphos ethyl, Azinphos methyl, Bromophos ethyl, Bromophos methyl, Bromopropylate, Cadusafos, Chlordane-cis, Chlordane-trans, Chlorfenvinphos, Chlorpyrifos ethyl, Chlorpyrifos methyl, Coumaphos, Cyfluthrin-beta, Cyhalothrin-lamda, Cypermethrin-alpha, DDD-pp', DDE-pp', DDT-pp', Deltamethrin, Diazinon, Dichlorvos, Dicloran, Dicofol deg. (DCBP), Dieldrin, Dimethoate, Endosulfan-alpha, Endosulfan-beta, Endosulfan sulfate, Endrin ketone, Ethion, Ethoprophos, Fenarimol, Fenitrothion, Fenoxycarb, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenvalerate, Fluvalinate, HCH-alpha, HCH-beta, HCH-gamma, HCH-delta, Heptachlor, Heptachlor endo epoxide, Heptachlor exo epoxide, Iprodione, Kresoxim methyl, Malathion, Methidathion, Methoxychlor, Metolachlor, Monocrotophos, Nitrofen, Omethoate, Oxyfluorfen, Parathion ethyl, Parathion methyl, Pendimethalin, Permethrin, Phorate, Phosalone, Phosphamidon, Pirimicarb, Pirimiphos methyl, Procymidone, Propachlor, Propanil, Propyzamide, Pyrazophos, Pyriproxyfen, Quintozene, Simazine, Terbuthylazine, Triadimefon, Trifluralin, Vinclozolin	In house multi-residue method, TX_05, employing Gas Chromatography-Mass Spectrometry GC-MS/MS, based on EN 15662:2018
20. Flour, Cereals and Bakery Products	1. Determination of Moisture	Modified based on 925.09, 935.36 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 923.03 (AOAC 17th Ed. 2003)
	3. Determination of Proteins	Modified based on 991.20 (AOAC 17th Ed. 2003) & ISO 1871:2009

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
21. Cereals, Bakery Products, French fries potato products	1. Determination of Acrylamide	EN 16618:2015
22. Milk & Dairy Products	1. Determination of Moisture	Modified based on 926.08 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 935.42 (AOAC 17th Ed. 2003) cheese, 945.46 (AOAC 17th Ed. 2003) milk
	3. Determination of Proteins	Modified based on 991.20 (AOAC 17th Ed. 2003) & ISO 1871:2009
23. Meat & Meat Products	1. Determination of Moisture	Modified based on 950.46 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 920.153 (AOAC 17th Ed. 2003)
	3. Determination of Proteins	Modified based on 991.20 (AOAC 17th Ed. 2003) & ISO 1871:2009
24. Honey	1. Determination of Moisture	1. Harmonised Methods of the International Honey Commission (2009), method 1 2. Modified based on 969.38 (AOAC 17th Ed. 2003)
	2. Determination of Diastase Activity	Harmonised Methods of the International Honey Commission (2009), method 6.2
	3. Determination of Hydroxymethylfurfural (HMF)	Harmonised Methods of the International Honey Commission (2009), method 5.2
	4. Determination of electrical conductivity	Harmonised Methods of the International Honey Commission (2009), method 2
	5. Determination of pH and free acidity	Harmonised Methods of the International Honey Commission (2009), method 4.1
	6. Determination of Sugars: fructose, glucose, sucrose, maltose and turanose	Harmonised Methods of the International Honey Commission (2009), method 7.2
	7. Determination of Antibiotics: Carbarox, Chlortetracycline hydrochloride, Doxycycline, Flumequine, Fumagillin, Oxytetracycline, Penicillin G, Penicillin V, Suflamethoxazole, Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine, Sulfaclozine, Sulfadiazine, Sulfadimethoxine, Sulfadoxine, Sulfaguanidine, Sulfameter, Sulfamethazine, Sulfamethizole, Sulfamethoxypyridazine, Sulfametrazine, Sulfamonomethoxine, Sulfanitran, Sulfapyridine, Sulfaquinoxaline, Sulfisoxazole, Tetracycline hydrochloride, Trimethoprim	In house multi-residue method TX_011 employing Liquid Chromatography-Mass Spectrometry LC-MS/MS

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
24. Honey *(cont.)*	8. Determination of thyme pollen	Methods of Melissopalynology (Bee World, 59, 139-157, 1978) και Harmonized Methods of Melissopalynology (Apidologie 35 S18-S25, 2004)
25. Nuts & Nuts Products	1. Determination of Moisture	Modified based on 925.40 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 950.49 (AOAC 17th Ed. 2003)
	3. Determination of Proteins	Modified based on 991.20 (AOAC 17th Ed. 2003) & ISO 1871:2009
26. Sugar & Sugar Products	1. Determination of Moisture	Modified based on 925.45 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 900.02 (AOAC 17th Ed. 2003)
	3. Determination of Proteins	Modified based on 991.20 (AOAC 17th Ed. 2003) & ISO 1871:2009
27. Animal Feed	1. Determination of Moisture	Modified based on 934.01 (AOAC 17th Ed. 2003)
	2. Determination of Ash	Modified based on 942.05 (AOAC 17th Ed. 2003)
	3. Determination of Proteins	Modified based on 2001.11 (AOAC 17th Ed. 2003) & ISO 1871:2009
28. Animal Feed, Cereals	1. Determination of crude fibre	ISO 6865:2000
Physical tests		
1. Raw Milk	1. Determination of freezing point	Thermistor cryoscope routine method, ISO 5764 | IDF 108: 2009, Annex C
Biochemical tests		
1. Raw Milk	1. Detection of microbial inhibitors Penicillins [Amoxicillin, Ampicillin, Penicillin G, Cloxacillin, Oxacillin], Tetracyclines [Oxytetracycline, Chlortetracycline, Tetracycline, Doxycycline], Sulfonamides [Sulfamethazine, Sulfathiazole, Sulfadimethoxine, Sulfadiazine], Macrolides [Tilmicosin, Tylosin, Erythromycin, Lincomycin, Rifaximin], Aminoglycosides [Neomycin, Gentamycin, Kanamycin, DHStreptomycin, Spectinomycin], Cephalosporins [Cephapirin, Ceftiofur, Cefoperazone, Cefalexin, Cefquinome], Others [Chloramphenicol, Trimethoprim, Dapsone]	Diffusion method DELVOTEST SP NT

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
Biological tests		
1. Water for hemodialysis and relevant treatments	1. Determination of Bacterial Endotoxins	European pharmacopoeia 11th Edition, chap. 2.6.14. Bacterial Endotoxins Method A (gel clot: limit test), Method B (gel clot: quantitative)
Sensory (Organoleptic) tests		
1. Water potable, surface and groundwater for human consumption or not	1. Determination of the threshold odour number (TON) and threshold flavour number (TFN)	In house method NX_28 based on EN 1622:2006
2. Virgin oilive oil	1. Organoleptic assessment	COI/T.20/Doc. No 15 as in force
Microbiological tests		
1. Food – Animal Feeding Stuffs	1. Enumeration of microorganisms - Colony Count technique at 30 °C	ISO 4833-1:2013/Amd 1:2022
	2. Enumeration of coliforms - Colony Count technique at 30 °C	ISO 4832:2006
	3. Enumeration of β-glucuronidase – positive *Escherichia coli*	ISO 16649-2:2001
	4. Enumeration of coagulase- positive staphylococci (*Staphylococcus aureus* and other species)	ISO 6888-2:2021
	5. Enumeration of *Enterobacteriaceae*	ISO 21528-2:2017
	6. Detection of *Salmonella* spp. (except *S. Typhi* & *S. Paratyphi*)	ISO 6579-1:2017/Amd 1:2020
	7. Detection of *Listeria monocytogenes* and *Listeria* spp.	ISO 11290-1:2017
	8. Enumeration of *Listeria monocytogenes* και *Listeria* spp.	ISO 11290-2:2017
2. Food, Animal Feeding Stuffs with $a_w > 0.95$	1. Enumeration of yeasts and moulds	ISO 21527-1:2008
3. Food, Animal Feeding Stuffs with $a_w \leq 0.95$	1. Enumeration of yeasts and moulds	ISO 21527-2:2008
4. Surface, drinking, underground and	1. Detection and enumeration of Enterococci	ISO 7899-2:2000
	2. Enumeration of the total aerobic micro-organisms at 22±2 °C and 37±2 °C	ISO 6222:1999

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
swimming pool waters	3. Enumeration of Total Coliforms and *E. coli*	ISO 9308-1:2014/Amd 1:2016
	4. Detection of *Salmonella* spp.	ISO 19250:2010
	5. Detection and enumeration of *Pseudomonas aeruginosa*	ISO 16266:2006
	6. Detection and enumeration of *Clostridium perfringens and spores*	ISO 14189:2013
	7. Enumeration of *Legionella* spp.	ISO 11731:2017
	8. Detection and enumeration of somatic coliphages	ISO 10705-2:2000
5. Legionella isolates from Surface, Drinking and Swimming pool waters	1. Identification of Legionella spp. • L. pneumophila Serogroup 1, • L. pneumophila Serogroups 2-15	Latex agglutination, by using MICROGEN ® LEGIONELLA (M45)
6. Sea Water	1. Enumeration of Total Coliforms	ISO 9308-1:2014/Amd 1: 2016
	2. Enumeration of *E. coli*	ISO 9308-1:2014/Amd 1: 2016
	3. Detection and enumeration of Intestinal Enterococci	ISO 7899-2:2000
	4. Detection of *Salmonella* spp.	ISO 19250:2010
7. Water for hemodialysis and relevant treatments	1. Enumeration of total culturable microorganisms at 20±3°C	ISO 23500-3:2024
8. Wastewater & wastes, surface and underground water	1. Detection and enumeration of Total Coliforms (Membrane Filtration procedure)	APHA* 9222B:2023
	2. Detection and enumeration of Fecal Coliforms (Membrane Filtration procedure)	APHA* 9222D: 2023
	3. Detection and enumeration of *E. coli*	APHA* 9222I: 2023
	4. Detection and enumeration of Intestinal Enterococci	ISO 7899-2:2000
	5. Detection of *Salmonella* spp.	ISO 19250:2010
	6. Enumeration of somatic coliphages	ISO 10705-2:2000

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
9. Wastewater, Wastes, Environmental samples (Sludge, Sediments, biofilms etc.)	1. Enumeration of *Legionella* spp.	ISO 11731:2017
10. Legionella isolates from Wastewater, Wastes, Environmental samples (Sludge, Sediments, biofilms etc.)	1. Identification of Legionella spp. • L. pneumophila Serogroup 1, • L. pneumophila Serogroups 2-15	Latex agglutination, by using MICROGEN ® LEGIONELLA (M45)
11. Animal faeces and in environmental samples from the primary production stage	1. Detection of *Salmonella* spp. (except *S. Typhi* & *S. Paratyphi*)	ISO 6579-1:2017/Amd 1:2020
12. Environmental samples from food production and handling areas	1. Detection of *Salmonella* spp. (except *S. Typhi* & *S. Paratyphi*)	ISO 6579-1:2017/Amd 1:2020
	2. Detection of *Listeria monocytogenes* and *Listeria* spp.	ISO 11290-1:2017
	3. Enumeration of *Listeria monocytogenes* and *Listeria* spp.	ISO 11290-2:2017
13. Surface environmental samples including samples from the food chain or food production areas	1. Detection and enumeration of the total aerobic micro-organisms at 30 °C	ISO 4833-1:2013/Amd 1:2022
	2. Detection and enumeration of *Enterobacteriaceae*	ISO 21528-2:2017
	3. Detection and enumeration of Total Coliforms at 30 °C	ISO 4832:2006
	4. Detection and enumeration of β-glucuronidase – positive *Escherichia coli*	ISO 16649-2:2001
	5. Detection and enumeration of coagulase- positive staphylococci (Staphylococcus aureus and other species)	ISO 6888-2:2021
14. Fertilizers (Organic, Organo-mineral and Inorganic)	1. Detection of *Salmonella* spp.	CEN/TS 17780:2022
	2. Detection and enumeration of *Escherichia coli*	CEN/TS 17781:2022
15. Growing media and soil improvers (e.g. compost, sludge, sediments, soil)	1. Detection of Salmonella spp. (except S. Typhi & S. Paratyphi)	Method based on ISO 6579-1:2017 in implementation of Decision (EU) 1244/2022 of 13 July 2022
	2 Detection and enumeration of β-glucuronidase – positive *Escherichia coli*	Method based on ISO 16649-2:2001 in implementation of Decision (EU) 1244/2022 of 13 July 2022

Tested materials / products	Types of tests / Parameters to be measured	Applied standards / methods
Sampling		
1. Drinking water, groundwater-surface waters, swimming pools, seawater, marine waters and waste waters	1 Determination of Chemical Parameters	ISO 5667-1:2023 ISO 5667-3:2024 ISO 5667-5:2006 ISO 5667-9:1992 ISO 5667-10:2020 ISO 5667-11:2009 ISO 5667-14:2014
	2. Microbiological investigations	ISO 19458:2006 ISO 5667-1:2023 ISO 5667-3:2024 ISO 5667-5:2006 ISO 5667-9:1992 ISO 5667-10:2020 ISO 5667-11:2009 ISO 5667-14:2014 Directive 2006/7/EC
2. Milk	1. Determination of Chemical Parameters and Microbiological investigations	ISO 707:2008
3. Surface samples using swabs or sponges for microbiological testing	1. Horizontal surface sampling method for microbiological investigations	ISO 18593:2018 ISO 13307:2013
4. Environmental samples (Sludge)	1. Determination of Chemical and Microbiological parameters	ISO 5667-13:2011 ISO 5667-15:2009

* American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 24th Edition, 2023.

Site of assessment: **Permanent laboratory premises, 1 Dikonymou Makri Str., Ag. Markos 74100, Rethymno, Greece**

Approved signatories: **Afroditi Lagouvardou, Maria Spantidaki**

This scope of Accreditation replaces the previous one, dated 27.02.2026.
The Accreditation Certificate No **46**-5, according to ELOT EN ISO/IEC 17025:2017 has been extended until 26.11.2026.

Athens, 12th of May 2026



Konstantinou Evangelos Apostolos
CEO of ESYD