## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



**FACILITY: THESSALONIKI**

**LABORATORY: FOOD NUTRITIONAL VALUE**

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 1. Flour, biscuits, macaroni and relevant products | 1. Determination of Moisture | 15/09/2004 | 11/03/2015 | O.07.101 Modified method based on 925.10 (Flour and relevant products, bread, biscuits), 926.07 (macaroni) (AOAC Latest Edition) |
| | 2. Determination of Ash | 15/09/2004 | 11/03/2015 | O.07.102 Modified method based on 923.03 (Flour and relevant products, biscuits), 925.11 (macaroni), 930.22 (bread) (AOAC Latest Edition) |
| | 3. Determination of Fat Content | 15/09/2004 | 11/03/2015 | O.07.104 Modified method based on 922.06 (Flour and relevant products), 935.38 (bread), 925.12 (macaroni and relevant), 945.44 (biscuits and relevant baked) (AOAC Latest Edition) |
| | 4. Determination of Proteins | 15/09/2004 | 11/03/2015 | O.07.103 Modified method based on 920.87 (AOAC Latest Edition) |
| | 5. Determination of Dietary Fibres | 15/09/2004 | 11/03/2015 | O.07.105 Modified method based on 985.29 (AOAC Latest Edition) |
| 2. Milk, Cheese | 1. Determination of Ash | 15/09/2004 | 11/03/2015 | O.07.108 Modified method based on 945.46 (milk and condensed milk), 935.42 (cheese) (AOAC Latest Edition) |
| | 2. Determination of Total Solids - Moisture | 15/09/2004 | 11/03/2015 | O.07.107 Modified method based 925.23 (milk), 920.115 (condensed milk) (AOAC Latest Edition) |
| | 3. Determination of Moisture | 15/09/2004 | 11/03/2015 | O.07.106 Modified method based on 948.12 (cheese) (AOAC Latest Edition) |
| | 4. Determination of Protein | 15/09/2004 | 11/03/2015 | O.07.110 Modified method based on 991.20 (AOAC Latest Edition) |
| | 5. Determination of Fat Content | 15/09/2004 | 11/03/2015 | O.07.109 Modified method based on 989.05 (milk and condensed milk) 933.05 (cheese) (AOAC Latest Edition) |
| 3. Meat and Meat Products | 1. Determination of Moisture | 15/09/2004 | 11/03/2015 | O.07.111 Modified method based on 950.46 (AOAC Latest Edition) |
| | 2. Determination of Ash | 15/09/2004 | 11/03/2015 | O.07.112 Modified method based on 920.153 (AOAC Latest Edition) |
| | 3. Determination of Fat Content | 15/09/2004 | 11/03/2015 | O.07.114 Modified method based on ISO 1443:1973 |
| | 4. Determination of Protein | 15/09/2004 | 11/03/2015 | O.07.113 Modified method based on 928.08 (AOAC Latest Edition) |
| | 5. Determination of nitrate and nitrite salts (with Discrete analyzer) | 08/11/2022 | 08/11/2022 | O.07.155 - Internal Method with Discrete Analyzer AQ300 EPA-126-D Rev3 |
| 4. Fruits and vegetables | 1. Determination of Ash | 15/09/2004 | 11/03/2015 | O.07.116 Modified method based |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and vegetables | | | | on 930.05 (vegetables), 940.26 (fruits) (AOAC Latest Edition) |
| | 2. Determination of Dietary Fibres | 15/09/2004 | 11/03/2015 | O.07.119 Modified method based on 985.29 (AOAC Latest Edition) |
| | 3. Determination of Protein | 15/09/2004 | 11/03/2015 | O.07.117 Modified method based on 991.20 (AOAC Latest Edition) |
| 5. Kiwi | 1. Determination of Moisture / dry matter | 9/9/2019 | 9/9/2019 | O.07.151 Modified based on Greek Food Codex |
| | 2. Determination of dry matter | 24/9/2021 | 24/9/2021 | O.07.151 Method based on OECD / Guidelines on Objective Tests to Determine Quality of Fruit and Vegetables, Dry and Dried Produce and Reg. (EC) 543/2011 |
| 6. Food (except baby food) | 1. Determination of 7 metals using ICP-MS: Sn, Cd, Ni, Co, Cr, As, Hg | 30/06/2016 | 19/12/2019 | O.07.138 Modified method based on 2013.06 (AOAC Lat. Ed.), complying to the performance criteria of Regulation (EC) 333/2007 and modifications thereof |
| | 2. Determination of **9** elements using ICP-MS: Ca, Mg, K, Na, Cu, Fe, Zn, Mn, P | 30/06/2016 | 19/12/2019 | O.07.138 Modified method based on 2013.06 (AOAC Lat. Ed.) |
| 7. Food included Milk (except baby food) | Determination of Lead (Pb) using ICP-MS | 30/06/2016 | 28/09/2023 | O.07.138 Modified method based on 2013.06 (AOAC Lat. Ed.) |
| 8. Edible oils | Determination of 4 metals using ICP- MS: Pb, Cu, As, Fe | 30/06/2016 | 19/12/2019 | O.07.138 Modified method based on 2013.06 (AOAC Lat. Ed.) |
| 9. Food | 1. Determination of Sorbic Acid | 10/09/2012 | 11/03/2015 | O.07.134 Modified method based on ISO 22855:2008 |
| | 2. Determination of Benzoic Acid | 10/09/2012 | 11/03/2015 | O.07.134 Modified method based on ISO 22855:2008 |
| | 3.a Determination of Sulfur Dioxide ($SO_2$), (HACH) | 10/09/2012 | 11/03/2015 | O.07.136 Modified method based on 990.28 (AOAC Latest Edition) |
| | 3.b Determination of Sulfur Dioxide ($SO_2$) (with Discrete analyzer) | 08/11/2022 | 08/11/2022 | O.07.136 - Modified method based on AOAC 990.28 and with Discrete Analyzer D06736_06 insert |
| 10. Cereals and their products, legumes and dry nuts | 1. Determination of Moisture | 18/05/2015 | 18/05/2015 | O.07.140 Method based on ISO 712:2009 and ISO 24557 |
| | 2. Determination of Ash | 18/05/2015 | 18/05/2015 | O.07.141 Modified method based on ISO 2171:2007 |
| | 3. Determination of Fat Content | 18/05/2015 | 18/05/2015 | O.07.143 Modified method based on Regulation (EK) 152/2009 |
| | 4. Determination of Proteins | 18/05/2015 | 31/08/2021 | O.07.142 Method based on ISO 20483:2013 |
| | 5. Determination of Dietary Fibres | 18/05/2015 | 18/05/2015 | O.07.144 Modified method based on 985.29 (AOAC Latest Edition) |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| | | | | |
| 11. Yogurt, deserts and yogurt products | 1. Determination of Total Solids - Moisture | 24/07/2015 | 04/11/2015 | O.07.145 Modified method based on ISO 13580 |
| | 2. Determination of Ash | 24/07/2015 | 04/11/2015 | O.07.146 Modified method based on 945.46 (AOAC Latest Edition) |
| | 3. Determination of Proteins | 24/07/2015 | 04/11/2015 | O.07.148 Modified method based on 991.20 (AOAC Latest Edition) |
| | 4. Determination of Fat Content | 24/07/2015 | 04/11/2015 | O.07.147 Modified method based on 989.05 (AOAC Latest Edition) |
| 12. Fish and Fish Products | 1. Determination of Moisture | 16/07/2018 | 16/07/2018 | O.07.125 Modified method based on the Food and Drinks Code |
| | 2. Determination of Ash | 16/07/2018 | 16/07/2018 | O.07.126, Modified method based on 938.08 (AOAC Latest Edition) |
| | 3. Determination of Proteins | 16/07/2018 | 16/07/2018 | O.07.128, Modified method based on 940.25 (AOAC Latest Edition) |
| | 4. Determination of Fat Content | 16/07/2018 | 16/07/2018 | O.07.127, Modified method based on ISO 1443: 1973 |
| 13. Cereal, bakery products, yeast products and related products | 1. Determination of Propionic acid | 29/06/2020 | 29/06/2020 | O.07.152 (HPLC-DAD) Modified method based on Beuth 17.00 14 |
| 14. Cheese substitutes and their products for vegetarians (vegan) | 1. Determination of Moisture | 14/07/2021 | 14/07/2021 | O.07.106 Modified method based on 948.12 (cheese) (AOAC Latest Edition) |
| | 2. Determination of Ash | 14/07/2021 | 14/07/2021 | O.07.108 Modified method based on 935.42 (cheese), (AOAC Latest Edition) |
| | 3. Determination of Proteins | 14/07/2021 | 14/07/2021 | O.07.110 Modified method based on 991.20 (AOAC Latest Edition) |
| | 4. Determination of Fat Content | 14/07/2021 | 14/07/2021 | O.07.109 Modified method based on 933.05 (cheese) (AOAC Latest Edition) |
| 15. Meat substitutes and their products for vegetarians (vegan) | 1. Determination of Moisture | 14/07/2021 | 14/07/2021 | O.07.111 Modified method based on 950.46 (AOAC Latest Edition) |
| | 2. Determination of Ash | 14/07/2021 | 14/07/2021 | O.07.112 Modified method based on 920.153 (AOAC Latest Edition) |
| | 3. Determination of Proteins | 14/07/2021 | 14/07/2021 | O.07.113 Modified method based on 991.20 (AOAC Latest Edition) |
| | 4. Determination of Fat Content | 14/07/2021 | 14/07/2021 | O.07.114 Modified method based on ISO 1443:1973 |
| 16. Animal feed | 1. Determination of Moisture | 31/08/2021 | 31/08/2021 | O.07.120 Method based on ISO 6496:1999 |
| | 2. Determination of Ash | 31/08/2021 | 31/08/2021 | O.07.121 Method based on ISO 5984:2002 |
| | 3. Determination of Fat Content | 31/08/2021 | 31/08/2021 | O.07.123 Method based on ISO 6492:1999 |
| | 4. Determination of Proteins | 31/08/2021 | 31/08/2021 | O.07.122 Method based on ISO 5983-2:2009 |
| | 5. Determination of crude fiber | 31/08/2021 | 31/08/2021 | O.07.115 Method based on ISO 6865:2000 |
| | 6. Determination of **16** metals and elements using ICP-MS Pb, Cd, Ni, Co, Cr, As, Hg, Ca, Mg, K, Na, Cu, Fe, Zn, Mn, P | 30/06/2016 | 19/12/2019 | O.07.138 Modified method based on 2013.06 (AOAC Lat. Ed.) |

**LABORATORY: QUALITY CONTROL OF PLANT PROTECTION PRODUCTS AND FERTILISERS**

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 1. Liquid and solid formulations of plant protection products. | 1. Quantitative determination of the active substances **Acetamiprid** and **Dimethoate** using HPLC | 24/04/2019 | 24/04/2019 | O.08.301 Modified method based on CIPAC L, 649/TC/M/2.1 (HPLC-DAD) |
| | 2. Quantitative determination of the active substance **Etofenprox** using GC | 24/04/2019 | 24/04/2019 | O.08.302 Modified method based on CIPAC G, 471/TC/M/2.1 (GC-FID) |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



**LABORATORY: FOOD CONTAMINANTS**

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 1. Fruits and Vegetables with high water content<br><br>(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 (including tropic fruits, as referred to Regulations (EC)396/2005 and (EC)187/2006 ) | 1. Determination of **273** pesticide residues<br><br>Abamectin, Acephate, Acetamiprid, Acibenzolar-S-methyl, Aldicarb, Aldicarb sulfone, Aldicarb sulfoxide, Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos methyl, Azoxystrobin, Beflubutamid, Benalaxyl-M, Benthiavalicarb-isopropyl, Bitertanol*, Boscalid, Bromuconazole, Buprimate, Buprofezin*, Butocarboxim sulfoxide, Butralin, Carbaryl, Carbendazim, Carbofuran, Carbofuran 3hydroxy, Carbofuran 3-keto, Carfentrazone-ethyl, Carpropamid, Chlorantranilliprole, Chlorbomuron, Chloridazon, Chlormequat chloride, Chloprofam, Chlorpyrifos, Chlorpyrifos-methyl, Chlorsulfuron, Cinidon-ethyl, Clodinafop-propargyl, Clofentezine, Cloquintocet-mexyl, Cloransulam-methyl, Clotdianidin, Cyanazine, Cyazofamid, Cycloate, Cymoxanil, Cyproconazole, Cyprodinil, Demeton-S- methyl, Demeton-S- methyl sulfone, Desmedipham, Desmethryn, Diazinon, Dichlofluanid*, DMSA (degr. dichlofluanid), , Dichlorvos, Diclobutrazole, Diclosulam, Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Diphenamid, Diuron, Dodemorph, Dodine, Emamection benzoate, Epoxiconazole, EPTC, Etaconazole, Ethiofencarb sulfone, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprofos, Etofenprox, Etoxazole, Famoxadone, Fenamidone, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenoxycarb, Fenoxyprop-P-ethyl, Fenpropimorph, Fenpropidin, Fenpyroximate, Fenthion, Fenthionoxon, Fenthionsulfoxide, Fenthoate, Fluazifop-P, Fluazifop-P-butyl, Fludioxonil, Flufenacet, Flufenoxuron, Flumioxazin, Fluoxastrobin, Flupicolid, Fluquinconazole, Fluroxypyr-methyl, Flusilazole, Flutolanil, Flutriafol, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Halofenozide, Haloxyfop, Haloxyfop-ethoxyethyl, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz-methyl, Imazaquin, Imidacloprid, Indoxacarb, Iprovalicarb, Isoprocarb, Isoprothiolane, Isoproturon, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mepanipyrim, Mephosfolan, Mepronil, Metabenzthiazuron, Metalaxyl, Metamitron, Metazachlor, Metconazole, Methamidophos*, | 01/05/2007 | 19/12/2019 | O.02.001 Modified method using **UPLC-MS/MS** based on:<br><br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br><br>2. SANTE/ Lat. Ed. of the European Commission |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and Vegetables with high water content (continued) | Methidathion, Methiocarb, Methiocarb sulfone, Methiocarb sulfoxide, Methomyl, Methoprotryn, Methoxyfenozide, Metobromuron, Metolcarb, Metoxuron, Metribuzin, Mevinphos, Monocrotophos, Monolinuron, Myclobutanil, Napropamide, Neburon, Nicosulfuron, Nitenpyram, Norflurazon, Novularon, Nuarimol, Ofurace, Omethoate, Oxadixyl, Oxamyl, Oxamyl-oxime, Oxycarboxin, Oxydemeton-methyl, Paclobutrazole, Penconazole, Pencycuron, Pendimethalin, Penoxsulam, Pethoxamide, Phenmedipham, Phoratesulfoxide, Phosmet, Phosphamidon, Phosalone, Picolinafen, Picoxystrobin, Piperonylbutoxide, Pirimicarb, Pirimicarb desmethyl, Pirimicarb desmethyl formamido, Pirimiphos-methyl, Prochloraz, Profam, Profenofos, Promecarb, Prometryn, , Propargite, Propaquizafop, Propazine, Propiconazole, Propoxur, Propyzamide, Prosulfacarb, Pymetrozine, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridate, Pyridaphenthion, Pyridatedegradation, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinoxyfen, Quizalofop-P-ethyl, Simazin, Simeconazole, Spinosad A*, Spinosad D*, Spirodiclofen, Spiroxamine, Spiromesifen, Sulfotep, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Teflubenzuron, Terbumeton, Terbuthylazine, Terbutryn, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb*, Thiofanox sulfone, Thiofanox sulfoxide, Thiometone, Thiometon sulfone, Thiometon sulfoxide, Thiophanate-methyl, Tolclophos-methyl, Tolylfluanid*, DMST (degr. tolylfluanid), Triadimefon, Triadimenol, Triasulfuron, Triazophos, Trichlorfon, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Triforine, Trimethacarb, Tritoconazole, Vamidothion, Vamidothion sulfoxide, Zoxamide<br>**except cauliflower* | | | |
| Fruits and Vegetables with high water content (continued) | 2. Determination of **318** pesticide residues<br>2.3.5-Trimethacarb, 2-Phenylphenol, 4,4'-Dichlorobenzophenon, Acetochlor, Acibenzolar-S-methyl Aclonifen, Acrinathrin, Alachlor, Aldrin, Alpha-HCH, Ametryn Anthraquinoe, Atrazine, Azoxystrobine, Benalaxyl, Benfluralin, Beta-HCH, Bifenazate, Bifenthrin, Biphenyl, Bitertanol, Boscalid, Bromocyclen, Bromophos methyl, Bromophos-ethyl, Bromopropylate Bromuconazole Bupirimate, Buprofezin, Butafenacil, Butralin, Cadusafos, Carbofuran, Carbophenothion, Carbophenothion methyl, Carboxin, Chionomethionat, Chlorantraniliprole, Chlorbensid, Chlorbufam, Chlordane cis, Chlordane trans, Chlorfenapyr Chlorfenprop Methyl, Chlorfenson, Chlormefos, Chlorobenzilate, Chloroneb, Chlorothalonil, | 19/06/2018 | 19/12/2019 | O.02.001 Modified method using **GC-MS/MS** based on:<br>1. Lehotay *et al.*: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br>2. SANTE/ Lat. Ed. of the European Commission |

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| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and Vegetables with high water content (continued) | Chlorotoluron, Chlorpropham, Chlorpyrifos ethyl, Chlorpyrifos-methyl, Chlorthal-dimethyl, Chlorthion, Chlozolinate, Clethodim, Clodinafop-propargyl, Clofentezine, Clomazon, Cloquintocet-mexyl, Coumaphos, Cyanazine, Cyanofenphos, Cyanophos, Cycloate, Cyfluthrin, Cyhalofop-butyl, Cypermethrin, Cyproconazol, Cyprodinil, DDD 4,4, DDD-2.4, DDE 4,4, DDE-2.4, DDT 2,4, DDT 4,4, DEET, Deltamethrin, Demeton-O, Demeton-S, Demeton-S-methyl, Desmetryn, d-HCH, Diafentiuron, Diazinon, Dichlobenil, Dichlofenthion, Dichloran, Dichlorvos, Diclobutrazol, Diclofluanid, Diclofop Methyl, Dicofol, Dieldrin, Diethofencarb, Difenoconazol, Diflufenican, Dimethomorph, Diniconazole, Dinobuton, Dioxabenofos (Salithion), Diphenamid, Diphenyl sulfide, Diphenylamine, Dipropethrin, Disulfoton, Disulfoton sulfone, Disulfoton sulfoxide, Ditalimfos, Endosulfan a, Endosulfan b, Endrin , EPN, Epoxiconazole, EPTC, Esfenvalerate, Etaconazole, Ethafluralin, Ethion, Ethofumesate, Ethoprophos, Etofenprox, Etridiazole, Etrimfos, Famoxadone, Fenamidone, Fenamiphos, Fenarimol, Fenazaquin, Fenbuconazole, Fenchlorphos, Fenfluthrin, Fenhexamid Fenitrothion, Fenobucarb, Fenoxaprop P ethyl, Fenpiclonil, Fenpropathrin, Fenpropidin, Fenpropimorph, Fenson, Fensulfothion, Fenthion, Fenthoate, Fenvalerate, Fipronil, Fipronil-sulfon, Flonicamid, Fluazifop-butyl, Fluchloralin, Flucythrinate, Fludioxonil, Flufenacet, Flufenoxuron, Flumetralin, Fluopicolide, Fluopyram, Fluotrimazole, Fluquinconazole, Flurprimidol, Flusilazole, Flutolanil, Flutriafol, Fluvalinate-Tau, Fonofos, Formothion, Fuberidazole Furalaxyl, Halfenprox, Haloxyfop-2-ethoxyethyl, Heptachlor, Heptachlor epoxide cis, Heptachlor epoxide Trans, Heptenophos, Hexachlorobenzene, Hexaconazole, Hexazinone, Imazalil, Iprobenfos, Iprovalicarb, Isazophos, Isocarbophos, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb, Isoprothiolane, Jodfenphos, Kresoxim Methyl, Lambda-Cyhalothrin, Lenacil, Leptophos, Lindane, Malathion, Mecarbam, Menfenpyr-diethyl, Mepanipyrim, Mepronil, Metalaxyl, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methidathion, Methoprotryne, Methoxychlor, Metolachlor-S, Metrafenone, Metribuzin, Mevinphos, Mirex, Molinate, Myclobutanil, Naled, Napropamide, Nitralin, Nitrapyrin, Nitrofen, Nitrothal-isopropyl, Norfurazon, Nuarimol, Ofurace, Oxadiazon, Oxadixyl, Oxyfluorfen, Paclobutrazol, Parathion Ethyl, Parathion-methyl, Pebulate, Penconazol, Pencycuron, Pendimethalin, Pentachloraniline, Pentachloroanisole, Permethrin, Perthan, | | | |

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| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and Vegetables with high water content (continued) | Phenkapton, Phenothrin, Phorate, Phosalone, Phthalimide (degr. Folpet), Picoxystrobin, Piperonylbutoxide, Pirimicarb, Pirimicarb desmethyl, Pirimicarb-desmethyl-for Pirimiphos Ethyl, Pirimiphos Methyl, Prochloraz, Procymidone, Profenofos, Profluralin, Promecarb, Prometryn, Propachlor, Propanil, Propazine, Propetamphos, Propham, Propiconazol, Propoxur, Propyzamide, Prosulfocarb, Prothiocanazole desthio, Prothioconazole, Prothiofos, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridaphenthion, Pyrifenox, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quintozene, Quizalofop-ethyl, Rotenone, S421, Silafluofen, Silthiopham, Simazine, Spiromesifen, Spiroxamine, Sulfotep, Sulprophos, Tebuconazole, Tebufenpyrad Tecnazene, Teflubenzuron, Tefluthrin, Terbacil, Terbufos,Terbufos sulfone, Terbufos sulfoxide, Terbumeton, Terbuthylazine, Terbutryn, Tetraconazole, Tetradifon, Tetrahydrophthalimide (degr. Captan), Tetramethrin, Tetrasul, Tolclofos Methyl, Transfluthrin, Triadimefon, Triadimenol, Triallate, Triazamate, Triazophos, Trichloranate, Trifloxystrobin, Trifluralin, Trinexapac-ethyl, Vinclozolin, Zoxamide. | | | |
| Fruits and Vegetables with high water content (continued) | 3. Determination of **409** pesticide residues<br>Acetamiprid, Acetochlor, Aclonifen, Albendazole, AllethrinII, Ametoctradin, Ametryn, Aminocarb, Ancymidol, Anilofos, Aspon, Atraton, Atrazine, Atrazine-desethylAzaconazole, Azamethiphos, Azinphos-ethyl, Aziprotryne, Azoxystrobin, Beflubutamid, Benalaxyl, Benalaxyl-M, Benazolin-ethylester, Bendiocarb, Benodanil, Benomyl, Benoxacor, Bensulide, Benthiavalicarb-isopropyl, Benzoximate , Benzoylprop-ethyl, Benzthiazuron, Bioallethrin, BispyribacNa, Bitertanol, Boscalid, Bromacil, Bromadiolone , Bromfenvinfos, Bromobutide, Bromuconazole, Bupirimate, Buprofezin , Butachlor, Butafenacil, Butamifos, Butralin, Buturon, Cadusafos, Cambendazole, Capropamide, Carbaryl, Carbendazim, ,Carbofuran, Carbofuran-3-hydroxy, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorbromuron, Chlorbufam ,Chlorfenvinphos , Chloridazone, Chlormequat, Chlorotoluron, Chloroxuron , Chlorpropham , Chlorpyriphos, Chlorpyriphos-methyl, Chlorthiophos, Chromafenozide , Cinidon-ethyl, Climbazole, Clofentezine, Clomazone , Cloquintocetmexyl, Clothiandin, Coumachlor, Coumaphos, Crufomate, Cyaniphos, Cyazofamid, Cycloxydim , Cycluron, Cyflufenamid, Cyprazin, Cyprodinil, Cythioate, DEET (Diethyltoluamide), Demeton-S-methylsulfone, Desmedipham, | 22/06/2016 | 28/08/2024 | O.02.036 Modified method using **UPLC qTOF** based on:<br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br>2. SANTE/ Lat. Ed. of the European Commission |

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| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and Vegetables with high water content (continued) | Desmetryn, Dialifos, Diazinon, Dichlofenthion, Diclobutrazol , Dicrotophos, Diethofencarb, Difenacoum , Difenoconazole , Difenoxuron, Difenzoquat , Diflubenzuron , Diflufenican, Dimefuron, Dimethachlor, Dimethenamid, Dimethirimol, Dimethoate, Dimethomorph , Dimethylvinphos, Dimoxystrobin , Diniconazole, Dioxacarb, Diphenamid, Dipropetryn, Disulfoton-sulfone, Disulfoton-sulfoxid, Dithiopyr, Diuron, Dodemorph, Dodine , Edifenphos, EPN, , Epoxiconazole, Etaconazole , Ethiofencarb, , Ethiofencarb-sulfone, Ethiofencarb-sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etobenzanid ,Etoxazole, Etrimfos, Famoxadone , Famphur, Fenamidone, Fenamiphos, Fenamiphos – sulfone, Fenamiphos sulfoxide, Fenazaquin, Fenbuconazole ,Fenclorazol ethyl, Fenfuram, Fenhexamid, Fenobucarb, FenoxanilFenoxaprop-P-ethyl, Fenoxycarb, Fenpiclonil, Fenpropidin ,Fenpropimorph, Fenpyrarazamine, Fenpyroximate, Fensulfothion, Fenthion, Fenthion-sulfon, Fenthion-sulfoxide, Fipronil , Flamprop-isopropyl, Flonicamid, Florasulam, Fluazifop-p, Fluazifop-P-butyl, Fluazuron, Flubendiamide , Fludioxonil , Flufenacet, Flumioxazin, Fluometuron, Fluopicolide, Fluopyram, Fluoroglycofen-ethyl , Fluoxastrobin, Fluquinconazole, Fluridone, Flurochloridone, Flurtamone, Flusilazole, Fluthiacet methyl, Flutolanil, Flutriafol, Fluxapyroxad, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Griseofulvin, Halosulfuron methyl, Haloxyfop-ethoxyethyl, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexazinone, Hexythiazox, Imazamethabenz-methyl, Imibenconazole, Inabenfide, Indoxacarb, Ipconazole, Iprobenfos ,Iprovalicarb , Isazophos, Isocarbamid (Azolamide), Isocarbophos , Isofenphos , Isofenphos-methyl, Isoprocarb, Isopropalin, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxathion, Kresoxim-methyl, Lactofen ,Lenacil, Linuron, Malaoxon, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mefenpyr-diethyl, Mefluidide, Mepanipyrim, Mephosfolan, Mepronil, Mesosulfuron methyl, Metaflumizone, Metalaxyl, Metalaxyl-M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methidathion, Methiocarb, Methoprotryn, Methoxyfenozide , Metobromuron, Metolachlor, Metosulam, Metrafenone, Metribuzin, Mexacarbate, Monalide , Monolinuron, Myclobutanil, N.N-Dimethyl-N'-p-tolylsulphamide (DMST), Napropamide, Neburon, Nicosulfuron, Norflurazon, Nuarimol, Ofurace, Omethoate, Orbencarb, Oxadiargyl , Oxadiazon, Oxadixyl, Oxfendazole, Oxycarboxin, Oxyfluorfen,, Paclobutrazole, Paraoxon, Paraoxon-methyl, Parathion, Pebulate, Penconazole, | | | |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Fruits and Vegetables with high water content (continued) | Pencycuron, Penflufen, Penfluron (Na), Penoxulam, Pentanochlor, Pethoxamid, Phenmedipham, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoxaden, Piperonylbutoxide , Piperophos, Pirimicarb Pirimicarb-desmethyl, Pirimiphos-ethyl, Pirimiphos-methyl, Pretilachlor, Prochloraz, Profenophos, Promecarb, Prometon, Prometryn , Propachlor, Propamocarb, Propanil, Propaquizafop, Propazine, Propetamphos , Propham , Propiconazole , Propoxycarbazone Na, Propyzamide , Proquinazid, Prosulfocarb, Prothioconazoledesthio, Pymetrozine, Pyracarbolid, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyrethrin I, Pyributicarb, , Pyridaben, Pyridaphenthion, Pyridate, , Pyrifenox, Pyriftalid, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Pyroxsulam, Quinalphos, Quinoxyphen, quizalofop-P-tefuryl, Rabenzazole, Rimsulfuron, Rotenone, Secbumeton, Sethoxydim , Siduron , Silthiofam, Simeconazole, Simetryn, Spinetoram, Spinosad (Spinosyn A, Spinosyn D), Spirodiclofen, Spiromesifen, Spirotetramate, Spirotetramate-enol, Spirotetramate-keto-hydroxy, Spirotetramate-mono-hydroxy, Spiroxamine, Sulfentrazone, Sulfotepp, Sulprofos, TCMTB, Tebuconazole, Tebufenozide , Tebufenpyrad, Tebupirimphos, Tebutame, Tebuthiuron, Temephos, TEPP, Tepraloxydim , Terbacil , Terbufo-ssulfone, Terbufos-sulfoxid, Terbumeton, Terbuthylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Thenylchlor, Thiamethoxam, Thiazafluron, Thiazopyr, Thifensulfuron-methyl, Thiobencarb, Thiodicarb, Thiofanox sulfone, Thiofanox sulfoxide, Thionazin, Tolclofos-methyl ,Tolfenpyrad, Tralkoxydim , Triallate, Triasulfuron, Triazophos, Tribufos ,Trichlorfon , Tricyclazole, Trietazine, Trifloxystrobin, , Trifloxysulfuron, Triflumizole , Triflusulfuron-methyl, Trimethacarb (2.3.5-), Trinexapac-ethyl, Triticonazole, Tritosulfuron, Vamidothion, Vernolate, Warfarin, Zoxamide, BAC 10, BAC 14 , BAC 16 | | | |
| Fruits and Vegetables with high water content (continued) | 4. Determination of **13** pesticide residues (Single residue method)<br><br>Bromide, Chlorate, Chlormequat, Ethephon, Ethylene Thiouria (ETU), Fosetyl-Al, Maleic Hydrazine, Matrine, Mepiquat, oxy-Matrine, Perchlorate, Phosphonic acid, Propylene Thiouria (PTU) | 07/06/2018 | 29/06/2020 | O.02.037 Modified method using **LC-MS-MS** based on:<br><br>**1.** EURL-SRM, Quick Method for the Analysis of numerous Highly Polar Pesticides in Foods of Plant Origin via LC-MS/MS involving Simultaneous Extraction with Methanol (QuPPe-Method) (Modified)<br><br>2. "Simultaneous Determination of Matrine and Berberine in Fruits, Vegetables, and Soil Using Ultra-Performance Liquid Chromatography/Tandem Mass Spectrometry", Liu et al.: Journal of AOAC International Vol. 97, |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
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| | | | | No. 1, 2014<br>3. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 5. Determination of **Dithiocarbamate** (**CS2**) pesticide residues by GC-MS/MS | 22/06/2021 | 22/06/2021 | O.02.022 Modified method using **GC-MS/MS**, based on:<br>1. "Analysis of dithiocarbamates residues in foods of plant origin involving cleavage into carbon disulfide, partitioning into isooctane", EURL Method<br>2. "Validation of a GC–MS method for the estimation of dithiocarbamate fungicide residues and safety evaluation of mancozeb in fruits and vegetables", Food Chemistry 150 (2014) 175–181<br>3. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 6. Determination of pesticide residues (Single residue method)<br>**Fenbutatin oxide** | 08/05/2016 | 19/12/2019 | O.02.034 Modified method using **LC-MS-MS,** based on:<br>**1.** EURL-SRM, Analysis of Organotin-Pesticides by the QuEChERS Method – Impact of acidifying on the recoveries (Modified)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 7. Determination of pesticide residues (Single residue method)<br>**Dithianon** | 08/05/2016 | 19/12/2019 | O.02.034 Modified method using **LC-MS-MS,** based on:<br>1. EURL-SRM, Analysis of Dithianon in Fruits and Vegetables using acidified QuEChERS and LC-MS/MS (Modified)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 8. Determination of pesticide residues **Phenoxyalkyl carboxylic acid** (Single residue method)<br>- 2.4-D<br>- Bentazone<br>- Bromoxynil<br>- Ioxynil<br>- MCPA | 08/05/2016 | 19/12/2019 | O.02.034 Modified method using **LC-MS-MS,** based on:<br>1. EURL-SRM, Analysis of Acid Pesticides using QuEChERS and acidified QuEChERS method (Modified)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 9. Determination 26 **acid** pesticides residues including conjugates, salts and/or esters, after alkaline Hydrolysis:<br>2,4,5-T, 2,4,5-TP (Fenoprop), 2,4-D, 2,4-DB, 2,4-DP (Dichlorprop), 4-CPA, Acibenzolar, Benazolin, Carfentrazone, Clodinafop, Clopyralid, Cyhalofop acid, Dalapon, Dicamba, Diclofop, Florpyrauxifen, Fluazifop, Fluroxypyr, Haloxyfop, MCPA, MCPB, MCPP, Pyraflufen, Quizalofop-P, Triclopyr, Trinexapac. | 23/12/2020 | 23/12/2020 | O.02.038 Modified method using **LC-MS/MS** based on:<br>1. EURL SRM Analytical Observations Report, Analysis of Acidic Pesticides Entailing Conjugates and/or Esters in their Residue Definitions<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content | 10. Determination of polar pesticides residues **Glyphosate** and **Glufosinate** | | | O.02.037 Modified method using **LC-MS/MS** based on : |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
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| (continued) | including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>- N-Acetyl-Glufosinate (NAG) | 21/04/2021 | 21/04/2021 | 1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 11. Determination of polar pesticides residues – **Amino alcohols** (Single residue method):<br>- Morpholine<br>- Diethanolamine (DEA)<br>- Triethanolamine (TEA) | 21/04/2021 | 21/04/2021 | O.02.037 Modified method using **LC-DMS-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Fruits and Vegetables with high water content (continued) | 12. Determination of polar pesticides residues **Diquat** και **Paraquat** (Single residue method):<br>- Diquat<br>- Paraquat | 22/06/2021 | 22/06/2021 | O.02.037 Modified method using **LC-DMS-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Citrus fruits (Oranges, lemons, grapefruits, etc.) | 13. Determination of pesticides residue **Guazatine** (guazatine acetate, sum of components) - (Single residue method):<br>– Guazatine-GG-cation<br>– Guazatine-GGG-cation<br>– Guazatine-GGN-cation<br>– Guazatine-GNG-cation | 20/04/2022 | 20/04/2022 | O.02.034 Modified method using **LC-MS/MS** based on:<br>1. EURL-SRM-Analytical Observations Report : "Analysis of Guazatine in Food Products"<br>2. SANTE/ Lat. Ed. of the European Commission |
| 2. Infant and baby foods | 1. Determination of **200** pesticide residues<br>2,3,5-Trimethacarb, Abamectin, Acetamiprid, Acetochlor, Acibenzolar-S-methyl, Ametryn, Aminocarb, Amitraz metabolite BTS 27271, Atrazine, Azimsulfuron, Azinphos- ethyl, , Azinphos-methyl, Azoxystrobin, Beflubutamid, Benalaxyl, Benalaxyl-M, Benfuracarb, Benthiavalicarb-isopropyl, Bifenazate, Bispyribac-sodium, Boscalid, Buprimate, Cadusaphos, Carbaryl, Carbendazim, Carbofuran, Carbofuran 3hydroxy, Carbofuran-3-keto, Carfentrazone-ethyl, Chlorantranilliprole, Chlorpyrifos-methyl, Chlorsulfuron, Clodinafop-propargyl, Clofentezine, Clornazone, Cloquintocet-mexyl, Cloransulam-methyl, Clotdianidin, Coumaphos, Cyazomafid, Cyflufenamid, Cyhalofop-butyl, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Desmedipham, Diazinon, Dichlofluanid, | 14/05/2013 | 19/12/2019 | O.02.001 Modified method using **UPLC-MS/MS** based on:<br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br>2. SANTE/ Lat. Ed. of the European Commission |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Infant and baby foods (continued) | Diclofop-methyl, DMSA (degr. dichlofluanid), Diethofencarb, Difenoconazole, Diflubenzuron, Dimefuron, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diuron, Dodemorph, Emamection benzoate, Epoxiconazole, Ethiofencarb, Ethiofencarb sulfone, Ethiofencarb sulfoxide, Ethion, Ethirimol, Ethoprofos, Etoxazole, Fenamidone, Fenazaquin, Fenbuconazole, Fenchlorazol-ethyl, Fenhexamid, Fenoxycarb, Fenoxyprop-P-ethyl, Fenpiclonil, Fenpropidin, Fenpropimorph, Fenpyroximate, Fluazifop-P-butyl, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluquinconazole, Fluroxypyr-meptyl, Flusilazole, Flutolanil, Flutriafol, Forchlorfenuron, Fosthiazate, Fuberidazole, Haloxyfop-methyl, Hexaconazole, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Iodosulfuron-methyl, Iprovalicarb, Isofenphos-methyl, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malathion, Mandipropamid, Mecarbam, Mepanipyrim, Mesosulfuron-methyl, Metalaxyl, Metalaxyl-M, Methamidophos, Methidathion, Methiocarb, Methiocarb sulfone, Methiocarbsulfoxide, Methomyl, Methoxyfenozide, Metolachlor, Metrafenone, Metribuzin, Myclobutanil, Napropamide, Nitenpyram, Novaluron, Omethoate, Oxadiazon, Oxadixyl, Oxamyl, Paclobutrazole, Penconazole, Pencycuron, Pendimethalyn, Penoxsulam, Phenmedipham, Phentoat, Phosalon, Phosmet, Pinoxaden, Piperonyl butoxide, Pirimicarb, Pirimicarb desmethyl, Pirimicarb-formadito, Pirimiphos-ethyl, Pirimiphos-methyl, Prochloraz, Prometryn, Propaquizofop, Propamocarb, Propanil, Propargite, Propiconazole, Propyzamide, Prosulfacarb, Pymetrozine, Pyraclostrobin, Pyraflufen-ethyl, Pyrimethanil, Pyriproxyfen, Pyroxsulam, Quinoxyfen, Quizalofop-P-ethyl, Quizalofop-P-tefuryl, Rimsulfuron, Simazin, Spinosad A, Spinosad D, Spirodiclofen, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Terbuthylazine, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thifensulfuron-methyl, Thiodicarb, Thiophanate-methyl, Tolylfluanid, DMST (degr. tolylfluanid), Triadimefon, Triadimenol, Triasulfuron, Tricyclazole, Trifloxystrobin, Triflumuron, Triflusulfuron-methyl, Trinexapac-ethyl, Zoxamide | | | |
| 3. Potable, surface and ground water intended or not for human consumption | 1. Determination of **256** pesticide residues<br>Abamectin, Acetamiprid, Acibenzolar-S-methyl, Alanycarb, Aldicarb sulfone, Aldicarb sulfoxide, Ametryn, Atrazine, Azaconazole, Azamethiphos, Azinphos | 15/06/2013 | 19/12/2019 | O.02.020 Modified method using **UPLC-MS/MS** based on:<br>1. Application of ultra performance liquid chromatography-tandem mass spectrometry to the analysis of |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
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| Potable, surface and ground water intended or not for human consumption (continued) | methyl, Azoxystrobin, Beflubutamid, Benalaxyl-M, Benthiavalycarb-isopropyl, Bitertanol, Boscalid, Bromuconazole, Buprimate, Buprofezin, Butocarboxim sulfone, Butralin, Carbaryl, Carbendazim, Carbofuran, Carbofuran 3hydroxy, Carbofuran-3-keto, Carfentrazone-ethyl, Carpropamid, Chlorantranilliprole, Chlorbomuron, Chloridazon, Chlorprofam, Chlorpyrifos, Chlorpyrifos-methyl, Chlorsulfuron, Clofentenzine, Cinidon-ethyl, Clodinafop, Clodinafop-propargyl, Cloquintocet-mexyl, Cloransulam-methyl, Clotdianidin, Cyanazine, Cyazofamid, Cymoxanil, Cyproconazol, Cyprodinil, Demeton-S-methylsulfone, Desmedipham, Desmethryn, Diazinon, Dichlofluanid, Diclobutrazole, Diclosulam, DMSA (degr. dichlofluanid), Dicrotophos, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Diuron, Dodemorph, Dodine, Emamection benzoate, Epoxiconazole, Etaconazole, Ethiofencarb sulfone, Ethiofencarb sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Etofenprox, Etoxazole, Famoxadone, Fenamidone, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenoxycarb, Fenpropimorph, Fenpropidin, Fenpyroximate, Fenthionsulfoxide, Fenthoate, Fluazifop-P, Fluazifop-P-butyl, Fludioxonil, Flufenacet, Flufenoxuron, Flumioxazin, Fluoxastrobin, Flupicolid, Fluquinconazole, Fluroxypyr-meptyl, Flusilazole, Flutolanil, Flutriafol, Forchlorfenuron, Fosthiazate, Fuberitazole, Furalaxyl, Furathiocarb, Halofenozide, Haloxyfop, Haloxyfop-ethoxyethyl, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz-methyl, Imazaquin, Imazethapyr, Imidacloprid, Indoxacarb, Iprovalicarb, Isoprocarb, Isoprothiolane, Isoproturon, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mepanipyrim, Mephosfolan, Mepronil, Metabenzthiazuron, Metalaxyl, Metamitron, Metazachlor, Metconazole, Methidathion, Methiocarb, Methiocarb sulfone, Methiocarb sulfoxide, Methomyl, Methoprotryn, Methoxyfenozide, Metobromuron, Metoxuron, Metribuzin, Monocrotophos, Monolinuron, Myclobutanil, Napropamide, Neburon, Nicosulfuron, Norflurazon, Novaluron, Nuarimol, Ofurace, Omethoate, Oxadixyl, Oxamyl, Oxamyl-oxime, Oxycarboxin, Oxydemeton-methyl, Paclobutrazole, Penconazole, Pencycuron, Pendimethalyn, Penoxsulam, Pethoxamide, Phenmedipham, Phorate sulfoxide, Phosmet, Phosphamidon, Phosalone, Picolinafen, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Pirimicarb-desmethyl Pirimicarb-desmethyl formamido, Pirimiphos-methyl, Prochloraz, | | | priority pesticides in ground water. Journal of Chromatography A, Vol. 1109, p. 222-227, 2006<br><br>2. SANTE/ Lat. Ed. of the European Commission |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
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| Potable, surface and ground water intended or not for human consumption<br>(continued) | Profenofos, Promecarb, Prometryn, Propaquizalofop, Propargite, Propazine, Propiconazole, Propoxur, Propyzamide, Prosulfacarb, Pymetrozine, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyridaben, Pyridaphenthion, Pyridate, Pyridatedegradation, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriproxyfen, Quinoxyfen, Quizalofop-P-ethyl, Simazin, Simeconazole, Spinosad A, Spinosad D, Spirodiclofen, Spiromesifen, Spiroxamine, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron, Teflubenzuron, Terbumeton, Terbuthylazine, Terbutryn, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb, Thiofanox sulfone, Thiofanoxs ulfoxide, Thiometon sulfone, Thiometon sulfoxide, Tolclophos-methyl, Tolylfluanid, DMST (degr. tolylfluanid), Triadimefon, Triadimenol, Triasulfuron, Triazamate, Triazophos, Trichlorphon, Tricyclazole, Triflumuron, Trifloxystrobin, Triflumizole, Triforine, Trimethacarb, Tritoconazole, Vamidothion, Vamidothion-sulfone, Zoxamide | | | |
| Potable, surface and ground water intended or not for human consumption<br>(continued) | 2. Determination of **48** pesticide residues:<br>2,4'-DDD, 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Acrinathrin, Alachlor, Aldrin, Alpha-Endosulfan, alpha-HCH, Benfluralin, Beta-Endosulfan, Beta-HCH, Bifenthrin, Chlordane cis, Chlordane trans, Cyfluthrin, Cypermethrin, delta-HCH, Deltamethrin, Dieldrin, Endosulfan-sulfate, Endrin, Endrin aldehyde, Ethoprophos, Fenitrothion, Fenpropathrin, Fenvalerate 1, Fenvalerate 2, Flucythrinate, Heptachlor, Heptachlor-endo-epoxide, Heptachlor-exo-epoxide, Heptenophos, Hexachlorobenzene, Isodrin, Lambda-Cyhalothrin , Lindane, Methoxychlor I, Methoxychlor II, Metolachlor-S, ParathionEthyl, ParathionMethyl, Permethrin CIS, Permethrin TRANS, Tau-Fluvalinate, Tetradifon, Trifluralin | 12/05/2015 | 19/12/2019 | O.02.032 Modified method using **GC-MS/MS** based on:<br>1. ISO 28540, Determination of 16 polycyclic aromatic hydrocarbons (PAH) in water-Method using gas chromatography with mass spectrometric detection<br>2. ELOT/EN ISO 6468, Determination of certain organochlorine insecticides, polychlorinated biphenyls and chlorobenzenes - Gas chromatography method after liquid-liquid extraction |
| 4. Cereals and legumes<br>(Wheat, rye, barley, oat, maize, rice, white bread, crackers, breakfast cereals, pasta, dried bean, lentils) | 1. Determination of **212** pesticide residues<br>2.3.5-Trimethacarb, 4,4'-Dichlorobenzophenon, Acetochlor, Aclonifen, Acrinathrin, Alachlor, Aldrin, Alpha-HCH, Ametryn, Anthraquinone, Azoxystrobine, Benfluralin, Beta-HCH, Bifenazate, Bifenthrin, Bromocyclen, Bromophos-ethyl, Bromopropylate, Buprofezin, Butachlor, Butafenacil, Butralin, Cadusafos, Carbofuran, Carbophenothion, Carbophenothion methyl, Carboxin, Chionomethionat, Chlorbensid, Chlorbufam, Chlordane cis, Chlordane trans, Chlorfenapyr, Chlorfenprop Methyl, Chlorfenson, Chlormefos, Chlorobenzilate, Chloroneb, Chlorothalonil, Chlorotoluron, | 06/02/2020 | 06/02/2020 | O.02.001 Modified method using **GC-MS/MS** based on:<br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified),615-629<br>2. SANTE/ Lat. Ed. of the European Commission |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Cereals and legumes (continued) | Chlorpropham, Chlorpyrifos ethyl, Chlorthal-dimethyl, Chlozolinate, Clethodim, Clofentezine, Clomazon, Cyanofenphos, Cycloate, Cyfluthrin, Cyhalofop-butyl, Cypermethrin, Cyproconazol, Cyprodinil, Cyromazine , DDD-4,4', DDD-2.4, DDE-4,4', DDE-2.4, DDT-2,4', DDT-4,4', DEET, Deltamethrin, Desmetryn, d-HCH, Diafentiuron, Diazinon, Dichlobenil, Dichlofenthion, Dichloran, Dichlorvos, Diclobutrazol, Diclofluanid , Diclofop Methyl, Dicofol, Dieldrin, Diethofencarb, Difenoconazol, Diflufenican, Diniconazole, Dinobuton, Diphenamid, Diphenyl sulfide, Diphenylamine, Disulfoton, Endosulfan I, Endosulfan II, Endrin, Epoxiconazole I + II, EPTC, Esfenvalerate, Etaconazole I + II, Ethafluralin, Ethion, Ethofumesate, Ethoxyquin, Etofenprox, Etridiazole, Etrimfos, Fenamidone, Fenarimol, Fenazaquin, Fenbuconazole, Fenfluthrin, Fenitrothion, Fenpiclonil, Fenpropathrin, Fenpropidin, Fenpropimorph, Fenson, Fipronil, Flucythrinate, Fludioxonil, Flufenoxuron, Flumetralin, Fluopyram, Fluquinconazole, Flurprimidol, Flusilazole, Flutolanil, Fluvalinate-Tau, Fonofos, Furalaxyl, Heptachlor, Heptachlor epoxide cis, Heptachlor epoxide trans, Hexachlorobenzene, Hexaconazole, Iprovalicarb, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb, Kresoxim Methyl, Lindane, Mepanipyrim , Mepronil, Methabenzthiazuron, Methacrifos, Methidathion, Methoprotryne, Methoxychlor I + II, Metolachlor-S, Metrafenone, Mevinphos, Mirex, Molinat, Myclobutanil, Naled, Napropamide, Nitrofen, Nitrothal-isopropyl, Nuarimol, Oxadiazon, Oxyfluorfen, Pebulate, Penconazol, Pencycuron, Pendimethalin, Pentachloraniline, Pentachloroanisole, Permethrin, Perthan, Phenkapton, Phenothrin I + II, Phorate, Picoxystrobin, Pirimiphos Ethyl, Procymidone, Profluralin, Prometryn, Propanil, Propetamphos, Propham, Propiconazol, Prosulfocarb, Prothiocanazole desthio, Prothioconazole, Prothiofos, Pyridaben, Pyrifenox, Pyrimethanil, Pyriproxyfen, Quinalphos, Quinoxyfen, Quintozene, S421, Silafluofen, Silthiopham, Spiroxamine, Sulfotep, Sulprophos, Tebufenpyrad, Tecnazene, Teflubenzuron, Tefluthrin, Terbufos, Terbumeton, Terbutryn, Tetraconazole, Tetrahydrophthalimide, Tetramethrin, Tetrasul, Tolclofos Methyl, Transfluthrin, Triadimefon, Triallate, Trichloranate, Trifloxystrobin, Trifluralin, Vinclozolin, Zoxamide. | | | |
| Cereals and legumes (continued) | 2. Determination of **483** pesticides residues<br>5-Hydroxythiabendazole, Acetamiprid, Acetamiprid-N-Desmethyl, Alachlor, Albendazole, Aldicarb-sulfone | 06/02/2020 | 06/02/2020 | O.02.036 Modified method using **UPLC qTOF** based on:<br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629 |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| | (Aldoxycarb), Allidochlor, Ametoctradin, Ametryn, Aminocarb (Metacil), Ancymidol, Anilofos, Aramite, Aspon, Atraton, Atrazine, Atrazine-desethyl, Atrazine-desisopropyl, Azaconazole, Azamethiphos, Azinphos-ethyl, Azinphos-methyl, Aziprotryne, Azoxystrobin, BAC-C8, BAC-C10, BAC-C12, BAC-C14, BAC-C16, BAC-C18, Beflubutamid, nBenalaxyl, Benazolin-ethyl ester, Bendiocarb, Benodanil, Benoxacor, Bensulfuron-methyl, Bensulide, Benthiavalicarb-isopropyl, Benzovindiflupyr, Benzoximate, Benzoylprop-ethyl, Benzthiazuron, Bifenthrin, Bioresmethrin, Bispyribac Na, Bixafen, Boscalid, Bromacil, Bromfenvinfos, Bromobutide, Bromuconazole, BTS 40348 (Prochloraz metabolite), BTS 44595 (Prochloraz metabolite), Bupirimate, Buprofezin, Butachlor, Butafenacil, Butamifos, Butoxycarboxim, Butralin, Buturon, Cadusafos, Cambendazole, Capropamide, Carbaryl, Carbendazim, Carbetamide, Carbofuran, Carbofuran 3-keto, Carbofuran-3-hydroxy, Chlorantraniliprole, Chlorbromuron, Chlorfenson, Chlorfenvinphos, Chlorfluazuron, Chloridazone, Chlorobenzuron, Chlorotoluron, Chloroxuron, Chlorpropham, Chlorpyriphos, Chlorpyriphos-methyl, Chlorthiophos, Chromafenozide, Cinidon-ethyl, Climbazole, Clofentezine, Clomazone, Cloquintocet mexyl, Cloransulam methyl, Clothiandin, Coumachlor, Coumaphos, Crimidine, Crotoxyphos, Crufomate, Cyanofenphos, Cyazofamid, Cycloate, Cycluron, Cyflufenamid, Cyflumetofen, Cyhalothrin (lambda-), Cymiazole, Cyprazin, Cyproconazole I, Cyproconazole II, Cyprodinil, Cythioate, DDAC-C8, DDAC-C12, DEET (Diethyltoluamide), Demeton-S-methylsulfone, Desmedipham, Desmetryn, Dialifos, Diallate, Diazinon, Dicapthon, Dichlorobenzamide, Diclobutrazol, Diclosulam, Dicrotophos, Diethofencarb, Difenoconazole, Difenoxuron, Difenzoquat, Diflubenzuron, Diflufenican, Dimefuron, Dimethachlor, Dimethenamid, Dimethirimol, Dimethoate, Dimethomorph, Dimethylvinphos, Dimoxystrobin, Diniconazole, Dinotefuran, Dioxathion, Diphenamid, Dipropetryn, Disulfoton-sulfone, Disulfoton-sulfoxide, Ditalimfos, Diuron, Dodemorph, Dodine, Drazoxolon, Edifenphos, Emamectin B1a, Epoxiconazole, Etaconazole, Ethametsulfuron-methyl, Ethiofencarb, Ethiofencarb-sulfone, Ethiofencarb-sulfoxide, Ethion, Ethiprole, Ethirimol, Ethofumesate, Ethoprophos, Etobenzanid, Etofenprox, Etoxazole, Etrimfos, Famphur, Fenamidone, Fenamiphos, Fenamiphos - sulfone, Fenamiphos sulfoxide, Fenazaquin, Fenbuconazole, Fenchlorphos-oxon,Fenclorazol ethyl, Fenfuram, | | | 2. SANTE/ Lat. Ed. of the European Commission |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Cereals and legumes (continued) | Fenhexamid, Fenitrothion, Fenobucarb, Fenoxanil, Fenoxycarb, Fenpiclonil, Fenpropathrin, Fenpropidin, Fenpropimorph, Fenpyrarazamine, Fenpyroximate, Fensulfothion, Fensulfothion-sulfon, Fensulfothio-oxon-sulfone, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-sulfon, Fenthion-sulfoxide, Fenuron, Flamprop-isopropyl, Flazasulfuron, Florasulam, Fluazuron, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Flumetsulam, Flumioxazin, Fluometuron, Fluopicolide, Fluopyram, Fluoroglycofen-ethyl, Fluotrimazole, Fluoxastrobin, Flupyradifurone, Fluquinconazole, Fluridone, Flurochloridone, Flurprimidol, Flurtamone, Flusilazole, Fluthiacet methyl, Flutolanil, Flutriafol, Fluvalinate (tau-), Fluxapyroxad, Forchlorfenuron, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Furmecyclox, Griseofulvin, Halfenprox, Halosulfuron methyl, Heptenophos, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Icaridin, Imazalil, Imazamethabenz-methyl, Imazamox, Imazapic, Imazaquin, Imazethapyr, Imibenconazole, Imidacloprid, Imiprothrin, Inabenfide, Indaziflam, Indoxacarb, Iodofenphos (Jodfenphos), Iodosulfuron methyl, Ipconazole, Iprobenfos, Iprovalicarb, Isazophos, Isocarbamid, Isocarbophos, Isofenphos, Isofenphos-methyl, Isopropalin, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lactofen, Lenacil, Leptophos, Linuron, Malaoxon, Malathion, Mandipropamid, Mecarbam, Mefenacet, Mefenpyr-diethyl, Mefluidide, Mepanipyrim, Mephosfolan, Mepronil, Metalaxyl, Metazachlor, Metconazole, Methabenzthiazuron, Methfuroxam, Methidathion, Methiocar, Methiocarb-sulfone, Methiocarb-sulfoxide, Methoprotryn, Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metribuzin, Mexacarbate, Molinate, Monalide, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Napropamide, Neburon, Nicosulfuron, Nitenpyram, Norflurazon, Novaluron, N-Phenylurea, Nuarimol, Ofurace, Omethoate, Orbencarb, Oxadiargyl, Oxadiazon, Oxadixyl, Oxfendazole, Oxycarboxin, Paclobutrazole, Paraoxon, Paraoxon-methyl, Penconazole, Pencycuron, Pendimethalin, Penflufen, Penfluron, Penoxulam, Pentanochlor, Penthiopyrad, Permethrin, Pethoxamid, Phenmedipham, Phenthoate, Phorate, Phorate-oxon-sulfoxide, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosmet, Phosmet-oxon, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoxaden, Piperonylbutoxide, Piperophos, Pirimicarb, Pirimicarb Desmethyl formamido, Pirimicarb-desmethyl, Pirimiphos-ethyl, | | | |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Cereals and legumes (continued) | Pirimiphos-methyl, Pretilachlor, Profenophos, Profoxydim, Promecarb, Prometon, Prometryn, Propachlor, Propamocarb, Propanil, Propaquizafop, Propargite, Propazine, Propiconazole, Propoxur, Propyzamide, Proquinazid, Prothioconazole desthio, Prothiofos, Pymetrozine, Pyracarbolid, Pyraclofos, Pyraclostrobin, Pyrazophos, Pyributicarb, Pyridaben, Pyridalyl, Pyridaphenthion, Pyridate, Pyridate degratation, Pyrifenox, Pyrifenox, Pyriftalid, Pyrimethanil, Pyrimidifen, Pyriofenone, Pyriproxyfen, Pyroquilon, Pyroxsulam, Quinalphos, Quinmerac, Quinoclamine, Rabenzazole, Resmethrin, Rotenone, Sebuthylazine, Secbumeton, Sedaxane, Sethoxydim, Siduron, Silafluofen, Silthiofam, Simazine, Simeconazole, Simetryn, Spinetoram, Spinosad A (Spinosyn A), Spinosad D (Spinosyn D), Spirodiclofen, Spiromesifen, Spirotetramate, Spirotetramate-enol, Spirotetramate-enol-glucoside, Spirotetramate-keto-hydroxy, Spirotetramate-mono-hydroxy, Spiroxamine, Sulfotepp, Sulfoxaflor, Sulprofos, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebupirimphos, Tebutame, Tebuthiuron, Teflubenzuron, Tefluthrin, Temephos, TEPP, Tepraloxydim, Terbacil, Terbufos sulfone, Terbufos-sulfoxid, Terbumeton, Terbuthylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrin, Thenylchlor, Thiabendazole, Thiamethoxam, Thiazafluron, Thiazopyr, Thidiazuron, Thiobencarb, Thiofanox sulfone, Thionazin, Thiophanate-methyl, Thiophanat-ethyl, Tolclofos-methyl, Tolfenpyrad, Triadimefon, Triallate, Triasulfuron, Triazophos, Triazoxide, Tribufos, Trichlorfon, Tricyclazole, Tridemorph, Trietazine, Trifloxystrobin, Triflumizole, Triflumuron, Trimethacarb (2.3.5-), Triticonazole, Uniconazole, Vamidothion, Vamidothion sulfone, Vamidothion sulfoxide, Vernolate, Warfarin, Zoxamide. | | | |
| Cereals and legumes (continued) | 3. Determination of **13** pesticides residue (Single Residue Method)<br><br>Bromide, Chlorate, Chlormequat, Ethephon, Ethylene Thiouria (ETU), Fosetyl-Al, Maleic Hydrazine, Matrine, Mepiquat, oxy-Matrine, Perchlorate, Phosphonic acid, Propylene Thiouria (PTU) | 29/06/2020 | 29/06/2020 | O.02.037 Modified method using **LC-MS/MS** based on:<br><br>1. EURL-SRM, Quick Method for the Analysis of numerous Highly Polar Pesticides in Foods of Plant Origin via LC-MS/MS involving Simultaneous Extraction with Methanol (QuPPe-Method)<br><br>2. "Simultaneous Determination of Matrine and Berberine in Fruits, Vegetables, and Soil Using Ultra-Performance Liquid Chromatography/Tandem MassSpectrometry", Liu et al.: Journal of AOAC International Vol. 97, No. 1, 2014 |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| | | | | 2. SANTE/ Lat. Ed. of the European Commission |
| Cereals and legumes (continued) | 4. Determination of **Dithiocarbamate** (**CS2**) pesticide residues by GC-MS/MS | 22/06/2021 | 22/06/2021 | O.02.022 Modified method using **GC-MS/MS**, based on<br>1. "Analysis of dithiocarbamates residues in foods of plant origin involving cleavage into carbon disulfide, partitioning into isooctane", EURL Method<br>2. "Validation of a GC–MS method for the estimation of dithiocarbamate fungicide residues and safety evaluation of mancozeb in fruits and vegetables", Food Chemistry 150 (2014) 175–181<br>3. SANTE/ Lat. Ed. of the European Commission |
| Cereals and legumes (continued) | 5. Determination of polar pesticides residues **Glyphosate** and **Glufosinate** including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>- N-Acetyl-Glufosinate (NAG) | 21/04/2021 | 21/04/2021 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Cereals and legumes (continued) | 6. Determination of polar pesticides residues **Diquat** και **Paraquat** (Single residue method):<br>- Diquat<br>- Paraquat | 22/06/2021 | 22/06/2021 | O.02.037 Modified method **LC-DMS-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| 5. Difficult or unique commodities<br>Hops, Cocoa beans and products thereof, Coffee, Tea, Spices, Herbs etc | 1. Determination of **107** pesticides residue<br>Acetochlor, Alachlor, Aldrin, a-HCH, Ametryn, Anthraquinone, Atrazine, Benalaxyl, Benfluralin, b-HCH, Bifenthrin, Boscalid, Bromophos-ethyl, Bromophos methyl, Bromopropylate, Bupirimate, Butafenacil, Cadusafos, Carbaryl, Carbophenothion, Carbophenothion methyl , Carboxin, Chlorantraniliprole, Chlordane cis, Chlordane trans, Chlorethoxyfos, Chlorfenprop Methyl, Chlorfenson, Chlorpropham, Chlorpyrifos ethyl, Chlorthal-dimethyl, Clethodim, Cloquintocet-mexyl, Cyanophos, Cycloate, Cyfluthrin, Cypermethrin, DDD p,p'-, DDD-o.p'-, DDE-o.p'-, DDE p,p'-, DDTo.p'-, DDT p,p'-, DEET, Demeton-O , Diazinon, Dichlobenil, Dichlofenthion, Dichloran, 4,4'-Dichlorobenzophenone, Dicofol, | 11/03/2022 | 11/03/2022 | O.02.001 Modified method using **GC-MS/MS** based on:<br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br>2.ISO 15662:2018<br>3. SANTE/ Lat. Ed. of the European Commission |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Difficult or unique commodities (continued) | Difenoconazol, Dimethomorph, Diphenyl sulfide, EPN, EPTC, Ethoprophos, Etofenprox, Etrimfos, Fenbuconazole, Fludioxonil, Flufenoxuron, Flumetralin, Fluopicolide, Fluopyram, Fluotrimazole, Flutolanil, Fonofos, Haloxyfop-2-ethoxyethyl, Heptachlor, Heptachlor epoxide cis, Heptachlor epoxide trans, Hexachlorobenzene, Iprobenfos, Lindane, Mepanipyrim, Mepronil, Metalaxyl, Methacrifos, Metolachlor-S, Nitrapyrin, Parathion-methyl, Permethrin, Perthan, 2-Orthophenylphenol, Phorate, Pirimicarb, Pirimiphos Ethyl, Procymidone, Propazine, Propetamphos, Propham, Propyzamide, Prosulfocarb, Pyridaben, Quinoxyfen, Sulfotep, Sulprophos, Tebufenpyrad, Terbufos sulfoxide, Terbumeton, Terbuthylazine, Terbutryn, Tetraconazole, Transfluthrin, Triallate, Vinclozolin | | | |
| Difficult or unique commodities (continued) | 2. Determination of **324** pesticides residue<br><br>Acetamiprid, Acetamiprid-N-Desmethyl, Acibenzolar-S-Methyl, Alachlor, Alanycarb, Albendazole, Allidochlor, Ametoctradin, Ametryn, Aminocarb, Ancymidol, Atraton, Atrazine, Azaconazole, Azamethiphos, Azinphos-ethyl, Aziprotryne, Azoxystrobin, Beflubutamid, Benalaxyl, Bendiocarb, Benoxacor, Bensulfuron-methyl, Bensulide, Benzoximate, Benzthiazuron, Bifenthrin, Bitertanol, Bixafen, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Cafenstrole, Cambendazole, Carbaryl, Carbendazim, Carbetamide, Carbofuran 3-keto-, Carbofuran, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorfenvinphos, Chlorobenzuron, Chlorotoluron, Chloroxuron, Chlorpyriphos-ethyl, Chlorpyriphos-methyl, Chromafenozide, Climbazole, Clodinafop-propargyl, Clofentezine, Cloquintocet mexyl ,Crimidine, Crufomate, Cyanazine, Cyantraniliprole, Cyazofamid, Cycloate, Cycluron, Cyprazin, Cyproconazole, Cyprodinil, DEET (Diethyltoluamide), Deltamethrin, Demeton-S-methylsulfone, Desmedipham, Desmetryn, Dialifos, Diazinon, Dicapthon, Dichlormid, Diclobutrazol, Diclosulam, Dicofol, Diethofencarb, Difenacoum, Difenoconazole, Difenoxuron, Diflubenzuron, Dimefox , Dimefuron, Dimethoate, Dimethomorph, Dimoxystrobin, Dioxacarb, Dipropetryn, Disulfoton-sulfone, Dodemorph, Edifenphos, Emamectin B1a, Epoxiconazole, Ethirimol, Ethoprophos, Etofenprox, Etrimfos, Fenamidone, Fenamiphos-sulfone, Fenamiphos, Fenamiphos sulfoxide, Fenoxanil, Fenpropidin, Fenpropimorph, Fenpyrarazamine, Fenpyroximate, Fensulfothion, Fensulfothion-oxon, Fensulfothion-sulfon, Fensulfothio-oxon- | 11/03/2022 | 11/03/2022 | O.02.036 Modified method using **UPLC-qTOF** based on:<br><br>1. Lehotay *et al*.: AOAC Vol.88, No.2, 2005 (Modified), 615-629<br><br>2.ISO 15662:2018<br><br>3. SANTE/ Lat. Ed. of the European Commission |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Difficult or unique commodities (continued) | sulfone, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-oxon-sulfoxide, Fenthion-sulfon, Fenthion-sulfoxide, Fluazifop-P-butyl, Fluazuron, Fluindapyr, Flumetralin, Fluopyram, Fluoroglycofen-ethyl, Fluotrimazole, Fluridone, Flurtamone, Flusilazole, Fluthiacet methyl, Flutianil, Flutolanil, Flutriafol, Fluvalinate (tau-), Fluxapyroxad, Fuberidazole, Furathiocarb, Haloxyfop-ethoxyethyl, Haloxyfop-methyl, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imazalil, Imazamethabenz-methyl, Imidacloprid, Indaziflam, Indoxacarb, Inpyrfluxam ,Iodosulfuron methyl, Ipconazole, Iprodione, Iprovalicarb, Isazophos, Isocarbamid, Isocarbophos, Isofenphos, Isofenphos-methyl, Isofentamid, Isoflucypram, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxadifen-ethyl, Isoxaflutole, Isoxathion, Karanjin, Kresoxim-methyl, Lactofen, Lenacil, Lethane, Mandestrobin, Mandipropamid, Mecarbam, Mefenacet, Mefentrifluconazole, Mefluidide, Mepanipyrim, Mephosfolan, Mesotrione, Metalaxyl, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methidathion, Methiocarb-sulfone, Methiocarb-sulfoxide, Methomyl, Methoprotryn, Methoxyfenozide, Metolachlor, Metosulam, Metoxuron, Metrafenone, Mevinphos, Mexacarbate, Molinate, Monalide, Myclobutanil, Napropamide, Norflurazon, Novaluron, Ofurace, Oxadiazon, Oxadixyl, Paclobutrazole, Parathion-methyl, Pebulate, Penconazole, Pencycuron, Pendimethali, Penflufen, Penfluron, Pentanochlor, Phenmedipham, Phenthoate, Phorate, Phorate-oxon-sulfoxide, Phorate-sulfoxide, Phosalone, Phosmet, Phosmet-oxon, Phosphamidon, Picolinafen, Picoxystrobin, Pinoxaden, Piperonyl butoxide, Piperophos, Pirimicarb, Pirimicarb Desmethyl formamido, Pirimicarb-desmethyl, Pirimiphos-ethyl, Pirimiphos-methyl, Prochloraz, Procymidone, Prometon, Prometryn, Propachlor, Propanil ,Propaquizafop, Propazine, Propiconazole, Propoxycarbazone, Prosulfuron, Pyraclostrobin, Pyraflufen-ethyl, Pyrazophos, Pyrazoxone, Pyributicarb, Pyridaphenthion, Pyriftalid, Pyrimethanil, Pyrimidifen, Pyriminobac-methyl, Pyriofenone, Pyriproxyfen ,Pyroquilon, Pyroxsulam, Quinoclamine, Quinoxyphen, Rabenzazole, Rotenone, Saflufenacil, Schradan, Sebuthylazine, Secbumeton ,Sedaxane, Silthiofam, Simazine, Simeconazole, Simetryn, Spinosad A, Spinosad D, Spirotetramate, Spirotetramate-enol, Spiroxamin, Sulfotepp, Sulfoxaflor, SWEP.MCC, TCMTB, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebutame, Terbumeton, Terbuthylazine, Terbutryn, Tetrachlorvinphos , Tetraconazole, Tetramethrin, Thenylchlor, Thiacloprid, | | | |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Difficult or unique commodities (continued) | Thiamethoxam, Thidiazuron, Thiobencarb, Thionazin, Tolclofos-methyl, Tolfenpyrad, Tolprocarb, Tolyfluanid, Tralkoxydim, Triallate, Triazamate, Triazophos, Triazoxide, Tribenuron methyl, Trichlorfon, Triclopyricarb, Trietazine, Trifloxystrobin, Triflumizol Metabolite FM-6-, Triflumizole, Triflumuron, Triflusulfuron-methyl, Triticonazole, Uniconazole, Valifenalate, Vamidothion, Vamidothion sulfone, Vamidothion sulfoxide, Warfarin, Zoxamide | | | |
| Difficult or unique commodities (continued) | 3. Determination of pesticides residue (Single Residue Method)<br>– Chlorate,<br>– Fosetyl-Al<br>– Perchlorate<br>– Phosphonic acid | 11/03/2022 | 11/03/2022 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. EURL-SRM, Quick Method for the Analysis of numerous Highly Polar Pesticides in Foods of Plant Origin via LC-MS/MS involving Simultaneous Extraction with Methanol (QuPPe-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Difficult or unique commodities (continued) | 4. Determination of polar pesticides residue **Glyphosate** and **Glufosinate** including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>- N-Acetyl-Glufosinate (NAG) | 11/03/2022 | 11/03/2022 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| Difficult or unique commodities (continued) | 5. Determination of polar pesticides residue **Diquat** και **Paraquat** (Single residue method):<br>- Diquat<br>- Paraquat | 11/03/2022 | 11/03/2022 | O.02.037 Modified method **LC-DMS-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| 6. High fat content products of plant origin<br>**A) Olives and Oil seeds**<br>(Olives, avocados, nuts, oilseed rape, sunflower, cottonseed, soybeans, peanuts, sesame, Peanut butter, tahina, hazelnut paste etc.) | 1. Determination of polar pesticides residues **Glyphosate** and **Glufosinate** including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>- N-Acetyl-Glufosinate (NAG) | 11/03/2022 | 11/03/2022 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| High fat content products of plant origin<br>**A) Olives and Oil seeds** | 2. Determination of polar pesticides residues **Diquat** και **Paraquat** (Single residue method):<br>- Diquat | 11/03/2022 | 11/03/2022 | O.02.037 Modified method **LC-DMS-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| (continued) | - Paraquat | | | Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| 6. High fat content products of plant origin,<br>**B) Vegetable oils and fats**<br>(Olive oil, rapeseed oil, sunflower oil, seed oil, etc.) | 1. Determination of polar pesticides residues **Glyphosate** and **Glufosinate** including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>- N-Acetyl-Glufosinate (NAG) | 20/12/2022 | 20/12/2022 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| 7. High sugar content products<br>(Honey, raisins, dried fruits [e.g., apricots, plums, figs], fruit jams) | 1. Determination of polar pesticides residues **Glyphosate** and **Glufosinate** including metabolites (Single residue method):<br>- Glyphosate<br>- AMPA<br>- N-Acetyl-AMPA<br>- Glufosinate<br>- 3-[hydroxy(methyl)phosphinoyl] propionic acid (MPP)<br>N-Acetyl-Glufosinate (NAG) | 20/12/2022 | 20/12/2022 | O.02.037 Modified method using **LC-MS/MS** based on:<br>1. Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement in Food of Plant Origin (QuPPe-PO-Method)<br>2. SANTE/ Lat. Ed. of the European Commission |
| 8. Coffee | Determination of<br>**Oxratoxin A** | 19/12/2019 | 19/12/2019 | O.02.021<br>Modified method using **UPLC-MS/MS** based on:<br>Journal of Chromatography A, Vol. 1143, p. 48-64, 2007 |
| 9. Dried Nuts, Flour, Cereals, Animal Feed and Dried Fruits | Determination of **10 MycoToxins**<br>1. Aflatoxins (B1, B2, G1, G2)<br>2. Oxratoxin A<br>3. Diacetoxyscirpenol (DAS)<br>4. T-2<br>5. Zearalenone (ZON)<br>6. Deoxynivalenol (DON)<br>7. HT-2 | 13/06/2009 | 19/12/2019 | O.02.021 Modified method using **UPLC-MS/MS** based on:<br>Journal of Chromatography A, Vol. 1143, p. 48-64, 2007<br>And in compliance EC 401/2006 |
| 10. Milk and infant & baby foods containing milk | Determination of<br>**Aflatoxin M1** | 16/05/2012 | 19/12/2019 | O.02.021 In house method using **UPLC-MS/MS** based on:<br>a VICAM company application and in compliance with Regulation (EC) 401/2006 |
| 11. Animal Feed and Flour, Cereals | Determination of<br>**Fumonisins FB1 and FB2** | 06/11/2015 | 19/12/2019 | O.02.021 \|Modified method using **UPLC-MS/MS**, based on:<br>Journal of AOAC International, Vol93, No5, 2010, Rapid determination of Fumonisins in corn-based products by Liquid Chromatography/Tandem Mass Spesctrometry (Mod.) |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 12. Fruit juice and fruit-based puree | Determination of<br>**Patulin** | 17/01/2022 | 17/01/2022 | O.02.021 Modified method using **UPLC-MS**, based on:<br>ELOT EN 15890 Foodstuffs – Determination of Patulin in fruit juice and fruit-based puree for infants and young children – HPLC method with liquid/liquid partition clean up and solid phase extraction and UV detection. |
| 13. Food | Determination of **Alternaria Toxins**:<br>- Alternariol<br>- Alternariol Monomethyl Ether<br>- Altenuene<br>- Altertoxin I<br>- Tentoxin<br>- Tenuazonic Acid | 20/12/2022 | 20/12/2022 | O.02.021 Modified method using LC-MS/MS based on:<br>1. ISO 17521: 2021 , "Foodstuffs - Determination of Alternaria toxins in tomato, wheat and sunflower seeds by SPE clean-up and HPLC-MS/MS"<br>2. SANTE Lat. Ed. of the European Commission "Guidance document on identification of mycotoxins in food and feed"<br>3. Regulation (2002/657/EC): "on the performance of analytical methods and the interpretation of results"<br>4. Commission Recommendation (EU) 2022/553 |
| 14. Food | Determination of<br>**Coumarin** | 21/04/2022 | 21/04/2022 | O.02.021 Modified method using LC-MSMS based on:<br>1. Eur Food Res Technol, Analysis of coumarin in various food using liquid chromatography with tandem mass spectrometric detection<br>2. Regulation (EC) No 1334/2008 |
| 15. Food<br>• Oilseeds and their products<br>• Spices, aromatic plants and their products<br>• Cereals and their products<br>• Dairy and their products | Determination of residues<br>**Ethylene Oxide** and its metabolite **2-Chloroethanol** | 20/12/2022 | 20/12/2022 | O.02.040 Modified method using GC-MS/MS based on:<br>1. Analysis of Ethylene Oxide and its Metabolite 2-Chloroethanol by the QuOil Method and GC-MS/MS (EURL)<br>2. SANTE/ Lat. Ed. of the European Commission |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 16. Food of animal origin | Determination of **Perfluoroalkyl and Polyfluoroalkyl** substances (**PFAS**), (21 substances)<br>- Perfluorobutanoic acid (PFBA)<br>- Perfluoropentanoic acid (PFPeA)<br>- Perfluorohexanoic acid (PFHxA)<br>- Perfluoroheptanoic acid (PFHpA)<br>- Perfluorooctanoic acid (PFOA)<br>- Perfluorononanoic acid (PFNA)<br>- Perfluorodecanoic acid (PFDA)<br>- Perfluoroundecanoic acid (PFUdA)<br>- Perfluorododecanoic acid (PFDoA)<br>- Perfluorotridecanoic acid (PFTrDA )<br>- Perfluorobutane sulfonic acid (PFBS )<br>- Perfluoropentane sulfonic acid (PFPeS)<br>- Perfluorohexane sulfonic acid (PFHxS)<br>- Perfluoroheptane sulfonic acid (PFHpS)<br>- Perfluorooctane sulfonic acid (PFOS)<br>- Sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA)<br>- Hexafluoropropylene oxide dimer acid (HFPO-DA(GenX) )<br>- 9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid (9Cl-PF3ONS)<br>- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)<br>- N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)<br>-N-ethyl perfluorooctanesulfonamidoacetic acid(N-EtFOSAA) | 13/03/2023 | 13/03/2023 | O.02.041 Internal method with modified QUECHERS and solid phase extraction (SPE) and determination by LC-MS/MS<br>Commission regulation (EU) 2023/915 on maximum level for certain contaminants in food |
| 17. Food / Feed<br>• Cereals, milling products of cereals and processed cereal-based foods including those intended for infants and young children<br>• Legumes and their processed products<br>• Feed, cereal-based | Determination of **Ergot Alkaloids** (12 substances)<br>- Ergocornine<br>- Ergocorninine<br>- Ergocristine<br>- Ergocristinine<br>- Ergocryptine (sum of a,b isomers)<br>- Ergocryptinine (sum of a,b isomers)<br>- Ergometrine<br>- Ergometrinine<br>- Ergosine<br>- Ergosinine<br>- Ergotamine<br>- Ergotaminine | 03/01/2024 | 03/01/2024 | O.02.021 internal method LC-MS/MS based on:<br>**1**."EURL-MP-method_003 (version 2) Determination of ergot alkaloids in cereal-based food and feed by LC-MS/MS"<br>2. Commission regulation (EU) 2023/915 on maximum level for certain contaminants in food<br>3. Commission Implementing Regulation (EU) 2023/2782 |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



**LABORATORY: ENVIRONMENTAL**

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 1. Potable water, irrigation water, borehole water, groundwater, surface water | 1. pH | 01/10/2021 | 01/10/2021 | O.01.005 4500-H, B (APHA, Standard Methods lat. ed.) |
| | 2. Determination of Conductivity | 01/10/2021 | 01/10/2021 | O.01.006 2510 B (APHA, Standard Methods lat. ed.) |
| | 3. Determination of Chloride ions | 01/10/2021 | 01/10/2021 | O.01.007 Modified method based on 4500-Cl, B (APHA, Standard Methods lat. ed.) |
| | 4. Determination of Sulphate ions | 01/10/2021 | 01/10/2021 | O.01.008 Modified method based on 4500 $SO_4$, E (APHA, Standard Methods lat. ed.) |
| | 5. Determination of Hardness | 01/10/2021 | 01/10/2021 | O.01.013 Modified method based on 2340 B (APHA, Standard Methods lat. ed.) |
| | 6. Determination of Nitrite ions | 01/10/2021 | 01/10/2021 | O.01.011 Modified method based on 4500 $NO_2$, (APHA, Standard Methods lat. ed.) |
| | 7. Determination of Ammonium ions | 01/10/2021 | 01/10/2021 | O.01.009 Modified method based on 4500 $NH_3$, -(APHA, Standard Methods lat. ed.) |
| | 8. Determination of Nitrate ions | 01/10/2021 | 01/10/2021 | O.01.018 Modified method based on 4500 $NO_3^-$-B (APHA, Standard Methods lat. ed.) |
| | 9. Determination of COD | 01/10/2021 | 01/10/2021 | O.01.023 HACH LCK 314, LCK 514 |
| | 10. Determination of hexavalent Chromium | 01/10/2021 | 01/10/2021 | O.01.024 Modified method based on 3500 – Cr / B (APHA, Standard Methods lat. ed.) and HACH LCK 313 |
| | 11. Determination of Turbidity | 01/10/2021 | 01/10/2021 | O.01.028 Modified method based on 2130 B (APHA, Standard Methods lat. ed.) (using a portable turbidity meter |
| | 12. Determination of free cyanides | 01/10/2021 | 01/10/2021 | O.01.027 HACH LCK 315 |
| | 13. Determination of free Chlorine | 01/10/2021 | 01/10/2021 | O.01.026 Modified method based on 4500 ClG (APHA, Standard Methods lat. ed.), with Portable Photometer |
| | 14. Determination of colour | 01/10/2021 | 01/10/2021 | O.01.029 Modified method based on 2120 C (APHA, Standard Methods lat. ed.) |
| | 15. Determination of fluoride ions | 01/10/2021 | 01/10/2021 | O.01.030 Modified method based on 4500 F D. SPADNS (APHA, Standard Methods lat. ed.) |
| | 16. Determination of total solids | 01/10/2021 | 01/10/2021 | O.01.021 Modified method based on 2540 B (APHA, Standard Methods lat. ed.) |
| | 17. Potentiometric determination of chloride ions | 01/10/2021 | 01/10/2021 | O.01.042 In house method based on HACH Application DOC 316.52.93091 based on ISO 9297:2000 |
| | 18. Determination of total Alkalinity | 01/10/2021 | 01/10/2021 | O.01.043 In house method based on: HACH Application DOC 52.93085 και ISO 9963-1:1994 |
| | 19. Determination of sulfates | 08/11/2022 | 08/11/2022 | O.01.044 – In house method with discrete analyzer D06736_06 insert |
| | 20. Determination of fluorine | 08/11/2022 | 08/11/2022 | O.01.044 - In house method with discrete analyzer D12423_04 insert |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| 2. Potable, irrigation, bore hole, ground and surface waters | Determination of **31**elements using ICP-MS<br>Ca, Mg, K, Na, Cu, Fe, Zn, Mn, P, B, Al, Ba, Mo, Sr, Ag, Sn, Se, Sb, Si, Pb, Cd, As, Ni, Co, Cr, Hg, V, Be, U, Tl, Ti | 01/10/2021 | 01/10/2021 | O.01.040 Modified method based on 3125 A, B (APHA, Standard Methods lat. ed.) |
| 3. Potable, bore hole and ground waters | 1. Determination of bromate ion (BrO3- ) and Chlorite ion (ClO2-) | 01/10/2021 | 08/02/2022 | O.01.039 Modified method based on 4110 D (APHA, Standard Methods lat. ed.) |
| | 2. Determination of Total Organic Carbon (TOC) | 01/10/2021 | 01/10/2021 | O.01.038<br>HACH LCK 385 |
| 4. Potable, surface and ground water, intended or not for human consumption | 1. Determination of **16** polycyclic aromatic hydrocarbons PAHs: Acenaphthene, Acenaphtylene, Anthracene, benzo(a) Pyrene, benzo(a)anthracene, benzo(b) fluoranthene, benzo(ghi) perylene, benzo(k) fluoranthene, Chrysene, dibenzo(ah)anthracene, Fluoranthene, Fluorene, indéno (123 cd) perylene, Naphtalene, Phenanthrene, Pyrene | 01/10/2021 | 01/10/2021 | O O.15.001 - In house method GC-MS-MS modified and based on:<br>1. ISO 28540, Determination of 16 polycyclic aromatic hydrocarbons (PAH) in water- Method using gas chromatography with mass spectrometric detection<br>2. ΕΛΟΤΕΝ ISO 6468, Determination of certain organochlorine insecticides, polychlorinated biphenyls and chlorobenzenes - Gas chromatography method after liquid-liquid extraction |
| | 2. Determination of **16** PCBs:<br>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, PCB 209 | 01/10/2021 | 01/10/2021 | |
| | 3. Determination of **9** PCTs:<br>- 3,3''-Dichloro-o-terphenyl,<br>- 3,3''-Dichloro-p-terphenyl,<br>- 3',4,4''-Trichloro-m-terphenyl,<br>- 3,3'',4,4''-Tetrachloro-o-terphenyl<br>- 3,3'',4,4''-Tetrachloro-p-terphenyl<br>- 3,3'',5,5''-Tetrachloro-p-terphenyl,<br>- 3,3',3'',4,4''-Pentachloro-m-terphenyl<br>- 2,2'',4,4'',5,5''-Hexachloro-p-terphenyl,<br>- 3,3'',4,4'',5,5''-Hexachloro-p-terphenyl | 01/10/2021 | 01/10/2021 | |
| | 4a. Determination of **14** volatile substances VOCs:<br>Benzene, Toluene, m-Xylene, p-Xylene, o-Xylene, Ethylbenzene, Vinylchloride, 1,2-Dichloroethane<br>**Total trialomethanes**<br>Tribromomethane (Bromoform), Trichloromethane (Chloroform), Bromodichloromethane, Dibromochloromethane<br>**Aloethenes**<br>Trichloroethene, Tetrachloroethene | 01/10/2021 | 01/10/2021 | O.15.002 In house method GC-MS/ HS-SPME modified and based on:<br>1. ISO/DIS 17943 Determination of volatile organic compounds in water-Method using headspace solid-phase micro-extraction (HS-SPME) followed by gas chromatography-mass spectrometry (GC-MS) |
| | 4b. Determination of volatile substances VOCs:<br>Geosmin, 2-methylisoborneol | 20/12/2022 | 20/12/2022 | O.15.002 In house method GC-MS/ HS-SPME modified and based on:<br>1. ISO/DIS 17943 Determination of volatile organic compounds in water-Method using headspace solid-phase micro-extraction (HS-SPME) followed by gas chromatography-mass spectrometry (GC-MS) |
| | 5. Determination of | 01/10/2021 | 01/10/2021 | O.15.002 - In house method |

| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Potable, surface and ground water, intended or not for human consumption (continued) | **Epichlorohydrin** | | | GC-MS/ HS-SPME modified and based on:<br>ΕΛΟΤ-EN 14207 Determination of epichlorohydrin |
| | 6a. Determination of<br>**Acrylamide** | 01/10/2021 | 01/10/2021 | O.15.003 - In house method UPLC-MSMS modified and based on:<br>Determination of low-level Acrylamide in drinking water by liquid chromatography /tandem mass spectrometry, AOAC, Vol. 92, No. 1, p. 263-270, 2009 |
| | 6b. Determination of<br>**Acrylamide** | 20/12/2022 | 20/12/2022 | O.15.003 - In house method LC-MSMS by direct injection based on:<br>Determination of low-level Acrylamide in drinking water by liquid chromatography /tandem mass spectrometry, AOAC, Vol. 92, No. 1, p. 263-270, 2009 |
| | 7. Determination of **9** phenols:<br>- 2,3,4, 6 tetrachlorophenol,<br>- 2 chlorophenol,<br>- 2,4,5-Trichlorophenol,<br>- 2,4,6-Trichlorophenol,<br>- 2,4-Dichlorophenol,<br>- 2,4-Dimethylphenol,<br>- 2,6-Dichlorophenol,<br>- 4-Chloro-3-methyl phenol,<br>- Pentachlorophenol | 01/10/2021 | 01/10/2021 | O.15.004 - In house method GC-MSMS modified and based on:<br>ΕΛΟΤ / EN 12673, Gas chromatographic determination of some selected chlorophenols in water |
| | 8. Determination of Hydrocarbons dissolved or emulsified - Oils (fats and oils) | 01/10/2021 | 01/10/2021 | O.15.005 - In house method GC-FID modified and based on: ISO 9377.02: "Water Quality-Determination of hydrocarbon oil index-Part1Method using solvent extraction and gas chromatography" |
| | 9. Determination of oxidizability | 01/10/2021 | 01/10/2021 | O.01.037 - Modified method based on ISO 8467 |
| | 10. Determination of contaminants<br>- Bromates,<br>- Chlorate,<br>- Perchlorate | 01/10/2021 | 01/10/2021 | O.01.045 - In House LC-MS-MS method by direct injection based on:<br>1. EURL-SRM, Quick Method for the Analysis of Numerous Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC-MS/MS Measurement I. Food of Plant Origin (QuPPe-PO-Method)<br>2. Analysis of Bromate in Drinking Water Using Liquid Chromatography–Tandem Mass Spectrometry without Sample Pretreatment, ANALYTICAL SCIENCES NOVEMBER 2011, VOL. 27, 1091<br>3. SANTE/ Lat. Ed. of the European Commission |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| Potable, surface and ground water, intended or not for human consumption (continued) | 11. Determination of **9 Haloacetic acids** (HAAs)<br>- Chloroacetic acid (MCAA)<br>- Bromoacetic acid (MBAA)<br>- Dichloroacetic acid (DCAA)<br>- Bromochloroacetic acid (BCAA)<br>- Dibromoacetic acid (DBAA)<br>- Trichloroacetic acid (TCAA)<br>- Bromodichloroacetic(BDCAA)<br>- Chlorodibromoacetic(CDBAA)<br>- Tribromoacetic acid (TBAA) | 08/02/2022 | 08/02/2022 | O.15.006 - Internal method LC-MSMS based on:<br>Trace determination of nine haloacetic acids in drinking water by liquid chromatography–electrospray tandem mass spectrometry Journal of Chromatography A, 1217 (2010) 4873–4876 |
| | 12. Determination of **Bisphenol A** | 08/02/2022 | 08/02/2022 | O.15.006 - Internal method LC-MSMS based on:<br>Determination of Bisphenol A (BPA) in Commercially Packaged Ready-to-Consume Carbonated and Noncarbonated Water and Nonalcoholic Beverages: A Single-Laboratory Validation Study, First Action 2017.15 Li et al.: Journal of AOAC International, Vol. 102, No2, 2019 |
| | 13. Determination of **20** perfluoroalkyl and polyfluoroalkyl substances (**PFAS):**<br>- Perfluorobutanoic acid (PFBA)<br>- Perfluoropentanoic acid (PFPA)<br>- Perfluorohexanoic acid (PFHxA)<br>- Perfluoroheptanoic acid (PFHpA)<br>- Perfluorooctanoic acid (PFOA)<br>- Perfluorononanoic acid (PFNA)<br>- Perfluorodecanoic acid (PFDA)<br>- Perfluoroundecanoic acid (PFUnDA)<br>- Perfluorododecanoic acid (PFDoDA)<br>- Perfluorotridecanoic acid (PFTrDA)<br>- Perfluorobutane sulfonic acid (PFBS)<br>- Perfluoropentane sulfonic acid (PFPS)<br>- Perfluorohexane sulfonic acid (PFHxS)<br>- Perfluoroheptane sulfonic acid (PFHpS)<br>- Perfluorooctane sulfonic acid (PFOS)<br>- Perfluorononane sulfonic acid (PFNS)<br>- Perfluorodecane sulfonic acid (PFDS)<br>- Perfluoroundecane sulfonic acid<br>- Perfluorododecane sulfonic acid<br>- Perfluorotridecane sulfonic acid | 08/02/2022 | 13/01/2025 | O.15.006 - Internal method LC-MSMS based on: Application SCIEX Quantitation of PFASs in Water Samples using LC-MS/MS Large-Volume Direct Injection and Solid Phase Extraction. |
| | 14. Determination of **Microcystin LR** | 20/12/2022 | 20/12/2022 | O.15.006 – In house method LC-MSMS based on:<br>1. ISO 22104 Water quality – Determination of microcystins - Method using liquid chromatography and tandem mass spectrometry (LC-MS/MS) |
| | 15. Determination of **Nonylphenol** (cas no 84852-15-3) | 28/09/2023 | 28/09/2023 | O.15.006 – Internal method GC-MSMS based on:<br>1. ISO 18857<br>Water quality – Determination of selected alkyphenols – Part1 & Part2 |
| Potable, surface and ground | | | | |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| water, intended or not for human consumption (continued) | 16. Determination of **17β-estradiol** (cas no 50-28-2) | 28/09/2023 | 28/09/2023 | O.15.006 – Internal method LC-MSMS based on: 1. JRC technical report – Water framework directive watch list method - Analysis of 17β-estradiol and estrone |
| 5. Swimming pool water | 1. Determination of pH | 01/10/2021 | 01/10/2021 | O.01.005 4500-H, B (APHA, Standard Methods lat. ed.) |
| | 2. Determination of total Alkalinity | 01/10/2021 | 01/10/2021 | O.01.043 In house method based on HACH Application DOC 316.52.93085 and ISO 9963-1:1994 |
| | 3. Determination of Turbidity | 01/10/2021 | 01/10/2021 | O.01.028 Modified method based on 2130 B (APHA, Standard Methods lat. ed.) using a portable turbidity meter |
| 6. Soil | 1. Determination of Cu, Zn, Mn, Fe | 08/11/2022 | 08/11/2022 | O.01.302 - Modified method using ICP based on W. L. Lindsay, W.A. Norvell, Soil Science Society, American Journal vol.42, 1978, extraction with DTPA |
| | 2. Determination of Mg, K | 08/11/2022 | 08/11/2022 | O.01.301 - Modified method using ICP based on: "Method of Soil Analysis" 1982, American Society of Agronomy, p. 559-581, extraction with ammonium acetate |
| | 3. Determination of total $CaCO_3$ | 08/11/2022 | 08/11/2022 | O.01.303 - Pressure Calcimeter Method Modified based on Method of Soil Analysis 1996 Part 3 |
| | 4. Determination of organic carbon | 08/11/2022 | 08/11/2022 | O.01.304 - Modified Walkley-Black method based on Method of Soil Analysis 1996 Part 3 (Modified) |
| | 5. Determination of **55** pesticide residues 2,4'-DDD, 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Alachlor, Aldrin, Alpha-Endosulfan, Benfluralin, Beta-Endosulfan,, Bifenox, Bifenthrin, Biphenyl, Bromopropylate, CHLORDANE CIS, CHLORDANE TRANS, Dicofol, Dieldrin, Diphenyl sulfide, EPN, Endosulfan-sulfate, Endrin, Ethafluralin, Ethoprophos, Fenitrothion, Fensulfothion, Fluotrimazol, alpha-HCH, beta-HCH, delta-HCH, Heptachlor, Heptachlor-endo-epoxide, Heptachlor-exo-epoxide, Hexachlorobenzene, Leptophos, Lindane, Methacriphos, Metolachlor-S, Oxyfluorfen, ParathionEthyl, ParathionMethyl, PirimiphosEthyl, Propanil, Propetamphos, Propham, Prothiofos, Quinalphos, Quintozene, Tecnazene, Tefluthrin, Terbacil, Tetradifon, Transfluthrin, Trifluralin | 08/11/2022 | 08/11/2022 | O.02.035 - Modified method using GC-MS-MS based on: ISO 10382 Determination of organochlorine pesticides in soil |
| | 6. Determination of elements Pb, Cd, Ni, Cr, Co, As, Hg, Cu, Zn | 08/11/2022 | 08/11/2022 | Modified method by ICP-MS based on: EPA 3051A (after microwave digestion and strong acids) O.01.305 |
| | 7. Determination of Nitrates | 08/11/2022 | 08/11/2022 | O.01.306 - Internal Method with Discrete Analyzer AQ400 AGR-232-C Rev1 |

## LIST OF TESTS ACCREDITED IN FLEXIBLE SCOPE



| Matrix Category | Types of Tests | DATE OF INITIAL DEVELOPMENT (INITIATION) | DATE OF LAST MODIFICATION | METHODS / TECHNIQUES APPLIED |
|---|---|---|---|---|
| | 8. Determination of Phosphorus | 08/11/2022 | 08/11/2022 | O.01.307 - Internal method with Discrete analyzer AQ400 AGR-203-A Rev4 |
| | 9. Determination of Boron | 08/11/2022 | 08/11/2022 | O.01.312 - Modified ICP method based on 'Method of Soil Analysis 1982, American Society of Agronomy, p. 610-611'', extraction with boiling water |
| | 10. Determination of Mechanical Composition | 08/11/2022 | 08/11/2022 | O.01.308 - Internal method with Bouyoucos densitometer |
| | 11. Determination of Conductivity / pH | 08/11/2022 | 08/11/2022 | O.01.311 - In-house method with continuous flow robotic system, Extraction with water 1:5, based on ISO 11265, ISO 10390 |
| 7. Leaves / Plant tissues | 1. Determination of Total Nitrogen | 08/11/2022 | 08/11/2022 | O.01.310 - Modified elemental analyzer method based on AOAC 990.03 |
| | 2. Determination of Trace Elements and Macroelements<br>Ca, Mg, K, Na, Cu, Fe, Zn, Mn, P, B | 08/11/2022 | 08/11/2022 | O.01.305 - Modified ICP-MS method based on EPA 3051A (after microwave and strong acid digestion) |