

# Hellenic Accreditation System



## ACCREDITATION CERTIFICATE

No. 195-9

The Hellenic Accreditation System (ESYD), as the national accreditation body of Greece in accordance with the Law 4468/2017,

ACCREDITS

the  
Testing Laboratories  
“QACS Ltd.”

&

“QACSFOOD”

of

**Quality Assurance & Control Systems Ltd.**

in Metamorphosis, Attica and in Piraeus, Greece

under the terms of the ELOT EN ISO/IEC 17025:2017 Standard and the ESYD Criteria, to carry out tests, as specified in the attached Scope of the Accreditation, which may be revised by decisions of ESYD.

The initial accreditation was issued on 09.03.2005. This Certificate is valid until 08.03.2025 provided that the accredited bodies comply with the above Standard and the ESYD Criteria.

Athens, 11<sup>th</sup> of January 2024



# Hellenic Accreditation System



Annex F1/B13 to the Certificate No. 195-9

## SCOPE of ACCREDITATION

of the Testing Laboratory

### QACSF00D

of the

## QUALITY ASSURANCE AND CONTROL SYSTEMS LTD

Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
<b>Chemical Tests</b>		
<p>Ia. Fruits and vegetables with high water 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 and (EU) 600/2010)</p>	<p>Residue-determination of 370 agricultural drugs: abamectin, acephate, acetamiprid, acetochlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametoctradin, ametryn, amidosulfuron, amitraz, atrazine, azadirachtin, azamethiphos, azimsulfuron, azoxystrobin, benalaxyl, bendiocarb, benomyl, bentazone, benthiovalicarb isopropyl, benzovindiflupyr, bifenazate (<math>\alpha</math>), bitertanol, boscalid, bromacil, bromadiolone, bromoxynil, bromuconazole, bupirimate, buprofezin, butocarboxim, butocarboxim sulfoxide, cadusaphos, carbaryl, carbendazim, carbofenthothion, carbofuran, 3-OH carbofuran, carfentrazone, carpropamide, chloransulam, chlorantraniliprole, chlorbromuron, chlordinafop propargyl, chlorfenvinphos, chloridazon, chlorosulfuron (-), chlorotoluron, chloroxuron, chromafenozide, clethodim, climbazol, clofentezine, clothianidine, coumaphos, 4-CPA, crimidine, cyanazine, cyantraniliprole, cyazofamid, cycloate, cycloxydim, cyflufenamid, cyflumetofen, cymoxanil, cyproconazol, cyprodinil, cyromazin, 2,4-D, DEET, demetonO/S, demetonSMe, demetonSMesulfone, desmedipham, desmethyl-formamido-pirimicarb, desmethyl-pirimicarb, desmetryn, diazinon, dichlorprop, dichlorvos, diclobutrazol, diclotophos, diethofencarb, difenacum, difenoconazol, diflubenzuron, dimefox, dimethoate, dimethomorph e+z, dimoxystrobin, diniconazol, dinotefuran, dipropetryn, disulfoton sulfone, disulfoton sulfoxide, ditalimfos, diuron, DMF, DMPF, DMST, dodemorph, dodine, ediphenphos, emamectin benzoate, etaconazol, ethiofencarb sulfoxide, ethionfencarb, ethirimol, ethofumesate, ethoprophos, etofenprox, etoxazol, etrimfos, famoxadone, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenazaquin, fenbuconazol, fenchlorazol Et, fenchlorphos oxon, fenhexamid, fenobucarb (Baycarb), fenoxaprop-P-Et, fenoxycarb, fenpropidin, fenpyrazamine, fenpyroximate, fensulfotiothion, fenthion, fenthion oxon, fenthion sulfone, fenthion sulfoxide, fipronil, fipronil desulfinyl, fipronil sulfone, flazasulfuron, florasulam, fluazifop, fluazifop-Bu, fluazinam, flubendiamide, fludioxonil, flufenacet, flufenoxuron, fluometuron, fluopicolide, fluopyram, fluorotrimazol, fluoxastrobil, flurochloridone, flusilazol, fluthiacet-methyl, flutianil, flutolanil, flutriafol, fluxapyroxad, forchlorfenuron (CPPU), formetanate HCl, fosthiazate, fuberidazol, furalaxyl, furathiocarb, halofenozide, halosulfuron-methyl, haloxyfop, haloxyfop-p-Me, heptenophos, hexaconazol, hexaflumuron, hexazinon, hexythiazox, imazalil, imazamethabenz-methyl, imidacloprid, Imiprothrin, indoxacarb, iodosulfuron-Me, ioxynil, iprovalicarb,</p>	<p>In-house method E_XM113/ LC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>isazophos, isofetamid, isoprocarb, isoprothiolane, isoproturon, isoxaben, isoxadifen-ethyl (AE F122006), isoxaflutole, isoxathion, ivermectinB1a, kresoxim-Me, lenacil, linuron, lufenuron, malaaxon, malathion, mandipropamide, MCPA, mecarbam, mecoprop, mefenacet, mepanipyrim, mephosfolan, mepronil, mesosulfuron-Me, mesotrione, metaflumizone, metalaxyl, metamitron, metconazole, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methoprene, methoxyfenozide, metobromuron, metolcarb, metosulam, metrafenone, metribuzin, metsulfuron, mevinphos, monocrotophos, monolinuron, monuron, <math>\beta</math>-naphthoxyacetic acid, napropamide, neburon, nitenpyram, novaluron, nuarimol, ofurace, omethoate, oxadixyl, oxamyl, oxathiapiprolin, oxycarboxin, oxydemeton-Me, paclobutrazol, paraoxon Et, paraoxon-Me, pebulate, penconazol, penoxsulam (penoxalim), penthiopyrad, pethoamid, phenmedipham, phenothrin, N-phenyl urea, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosmamidon, phosmet, phosmet oxon, phoxim, picaridin, picolinafen, picoxystrobin, pinoxaden, piperonyl butoxide, pirimicarb, pirimiphos-Et, pirimiphos-Me, prallethrin, prochloraz, profenofos, profoxydim, promecarb, prometryn, propachlor, propamocarb, propanil, propaquizafop, propargite, propham, propiconazol, propoxur, propyzamid, proquinazid, prosulfocarb, prosulfuron, pymetrozin, pyraclostrobin, pyrazophos, pyrethrin I, pyrethrin II, pyridaben, pyrimethanil, pyriofenone, pyriproxyfen, pyroxsulam, quinalphos, quinochlorim, quizalofop, quizalofop-P-Et, quizalofop-P-tefuryl, resmethrin, rimsulfuron, rotenone, sethoxydim, siduron, simazine, spinosynA, spinosynD, spinosynJ, spinosynL, spirotetramat, spirotetramat-monoOH, spiroxamine, sulcotrione, sulfentrazone, sulfosulfuron, sulfotep, sulfoxaflor, sulprophos, tebuconazol, tebufenozide, tebufenpyrad, tebuthiuron, teflubenzuron, tembotrione, tepp-A, tepraloxydim, terbufos sulfone, terbufos sulfoxide, terbumeton, terbuthryn, terbuthylazine, tetrachlorvinphos, tetraconazol, thiabendazol, thiachloprid, thiamethoxam, thifensulfuron-Me, thiodicarb, thiofanox, thiofanox sulfone, thiofanox sulfoxide, thiophanate-Me, tolfenpyrad, tolyfluanid, tralkoxydim, tralomethrin, triadimefon, triadimenol, triasulfuron, tribenuron-Me, trichlorfon, triclopyr, tricyclazol, tridemorph, trifloxystrobin, trifloxysulfuron, triflumizol, triflumuron, triforine, triticonazol, tritosulfuron, uniconazol-P, valifenalate, vamidothion, zoxamide</p> <p>The symbol (<math>\alpha</math>) next to some drugs denote that these drugs are excluded of the scope only for the following matrices:(<math>\alpha</math>) leaf vegetables.</p>	
1b. Cereals and pulses	<p>Residue-determination of 369 agricultural drugs:</p> <p>abamectin, acephate, acetamiprid, acetochlor, acibenzolar-S-Me, aldicarb, aldicarbsulfone, aldicarbsulfoxide, ametoctradin, ametryn, amidosulfuron, amitraz, asulam, atrazine, azadirachtin Na, azamethiphos, azimsulfuron (IN A8947), azoxystrobin, benalaxyl, bendiocarb, benomyl, bentazone, benthiovalicarb isopropyl, benzovindiflupyr, bitertanol, boscalid, bromacil, bromadiolone, bromoxynil, bromuconazole, bupirimate, buprofezin, butocarboxim, cadusaphos, captafol, carbaryl, carbendazim, carbofenothion, carbofuran, 3-OH carbofuran, carfentrazoneEt, carpropamide, chloransulam, chlorbromuron, chlordinafoppropargyl, chlorfenvinphos, chloridazon, chlorosulfuron (-), chlorotoluron, chloroxuron, chlorpyrifos (-Et), chlorpyrifos-Me, chlroranthranilprole, chromafenozide, climbazol, clofentezine, clothianidine, coumaphos, 4-CPA, cppu, crimidine, cyanazine, cyantranilprole, cyazofamid, cycloate, cycloxydim, cyflufenamid, cyflumetofen, cymoxanil, cyproconazol, cyprodinil, 2,4-D, DEET demetonO/S, demeton-S-Me, demeton-S-Mesulfone, desmedipham, desmethryn, desmethyl-formamide-pirimicarb, desmethyl-pirimicarb, diazinon, dichlorprop, dichlorvos, diclobutrazol, dicrotophos, diethofencarb, difenacoum, difenoconazol, diflubenzuron, dimethoate, dimethomorphe+z, dimoxystrobin, diniconazole, dinotefuran,</p>	<p>In house method E_XM113/ LC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>dipropetryn, disulfoton sulfone, disulfoton sulfoxide, ditalimfos, diuron, DMF, DMPF, DMST, dodemorph, dodine, ediphenphos, emamectin B1a, etaconazol, ethiofencarb, ethiofencarb sulfoxide, ethirimol, ethofumesate, ethoprophos, etofenprox, etoxazol, etrimfos, famoxadone, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenazaquin, fenbuconazol, fenchlorazol Et, fenchlorphos oxon, fenhexamid, fenobucarb (Baycarb), fenoxaprop-P-Et, fenoxycarb, fenpropidin, fenpyrazamine, fenpyroximate, fensulfothion, fenthion, fenthion oxon, fenthionsulfone, fenthionsulfoxide, fipronil, fipronil desulfanyl, fipronil sulfone, flazasulfuron, florasulam (-), fluazifop, fluazifop-Bu, fluazinam, flubendiamide, fludioxonil, flufenacet, flufenoxuron, fluometuron, fluopicolide, fluopyram, fluorotrimazol, fluoxastrobil, flurochloridone, flusilazol, flutianil, flutolanil, flutriafol, fluxapyroxad, foramsulfuron, fosthiazate, fuberidazol, furalaxyl, furathiocarb, halofenozide, halosulfuron-methyl, haloxyfop, haloxyfop-p-Me, heptenophos, hexaconazol, hexaflumuron, hexazinon, hexythiazox, imazalil, imazamethabenz-methyl, imazamox, imidacloprid, imiprothrin, indoxacarb, iodosulfuron-Me, ioxynil, iprovalicarb, isazophos, isofetamid, isoprocarb, isoprothiolane, isoproturon, isoxaben, isoxadifen-ethyl (AE F122006), isoxaflutole, isoxathion, ivermectinB1a, kresoxim-Me, lenacil, linuron, lufenuron, malaaxon, malathion, mandipropamide, mecarbam, mecoprop, mefenacet, mepanipyrim, mephosfolan, mepronil, mesosulfuron-Me, mesotrione, metaflumizone, metalaxyl, metamiduron, metconazole, methabenzthiazuron, methacriphos, methamidophos, methidathion, methiocarb, methiocarbsulfone, methiocarbsulfoxide, methomyl, methoprene, methoxyfenozide, metabromuron, metolcarb, metosulam, metrafenone, metribuzin, metsulfuron (-), mevinphos, monocrotophos, monolinuron, monuron, myclobutanil, napropamide, neburon, nicosulfuron, novaluron (-), nuarimol, ofurace, omethoate, oxadixyl, oxamyl, oxathiapiprolin, oxycarboxin, oxydemeton-Me, paclobutrazol, paraoxon-Et, paraoxon-Me, parathion-Et, pebulate, penconazol, penoxsulam (penoxalim), penthiopyrad, pethoxamid, phenmedipham, phenothrin, N-phenyl urea, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosmamidon, phosmet, phosmet oxon, phoxim, picaridin, picolinafen, picoxystrobin, pinoxaden, piperonylbutoxide, pirimicarb, pirimiphos-Et, pirimiphos-Me, prallethrin, prochloraz, profenofos, promecarb, prometryn, propachlor, propanil, propaquizafop, propargite, propham, propiconazol, propoxur, propyzamid, proquinazid, prosulfocarb, prosulfuron, pyraclostrobin, pyrazophos, pyrethrin I, pyrethrin II, pyridaben, pyrimethanil, pyriofenone, pyriproxyfen, pyroxsulam, quinalphos, quinochlorim, quinoxiphen, quizalofop, quizalofop-P-Et, quizalofop-P-tefuryl, resmethrin, rimsulfuron, rotenone, siduron, simazine, spinosynA, spinosynD, spinosynJ, spinosynL, spirotetramat, spirotetramat, spirotetramat-monoOH, spiroxamine, sulcotrione, sulfentrazone, sulfosulfuron, sulfotep, sulfoxaflor, sulprophos, 2,4,5-T, tebuconazol, tebufenozide, tebufenpyrad, tebuthiuron, teflubenzuron, tembotrione, tepp-A, tepraloxydim, terbufos, terbufos sulfone, terbufos sulfoxide, terbumeton, terbuthryn, terbuthylazine, tetrachlorvinphos, tetraconazol, thiabendazol, thiachloprid, thiamethoxam, thifensulfuron-Me, thiodicarb, thiofanox, thiofanoxsulfone, thiofanoxsulfoxide, thiophanate-Me, tolfenpyrad, tolyfluanid, tralkoxydim, triadimefon, triadimenol, triasulfuron (-), tribenuron-Me, trichlorfon, triclopyr(-), tricyclazol, tridemorph, trifloxystrobin, trifloxysulfuron, triflumizol, triflumuron, triforine, triticonazol, tritosulfuron (-), uniconazol-P, valifenalate, vamidothion, zoxamide</p>	
1c. Milk and milk products	<p>Residue-determination of 302 agricultural drugs:</p> <p>abamectin, acetamiprid, acetochlor, acibenzolar-S-Me, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametocradin, ametryn, amitraz, atrazine, azadirachtin Na, azoxystrobin, benalaxyl, bendiocarb, benthiovalicarb isopropyl, bifenazate, bitertanol, boscalid, bromacil, bromuconazole, bupirimate, buprofezin, butocarboxim, cadusaphos, carbaryl, carbendazim, carbofenthiol, carbofuran, carbofuran,3-OH, carboxin, carfentrazoneEt, chlorantraniliprole, chlorfenvinphos, chloridazon, chlorpyrifos (-Et),</p>	<p>In house method E_XM113/ LC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>chlorpyrifos-Me, cinerin I, cinerin II, clethodim, climbazol, clodinafop propargyl, clofentezine, clothianidine, coumaphos, crimidine, cyanazine, cyazofamid, cycloate, cycloxydim, cyflufenamid, cymoxanil, cyproconazol, cyprodinil, cyromazin, DEET, demetonO/S, demetonSMe, demetonSMesulfone, desmedipham, desmethryn, diazinon, dibrom (naled), dichlorvos, diclobutrazol, diclotophos, diethofencarb, difenoconazol, diflubenzuron, dimefox, dimethoate, dimethomorph e+z, dimoxystrobin, diniconazol, dinotefuran, dipropetryn, disulfoton sulfone, disulfoton sulfoxide, ditalimfos, diuron, DMF, DMPF, DMST, dodemorph, emamectin B1a, etaconazol, ethiofencarb, ethiofencarb sulfoxide, ethofumesate, ethoprophos, etofenprox, etoxazol, etrimfos, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenazaquin, fenbuconazol, fenhexamid, fenoxaprop-P-Et, fenoxycarb, fenpropidin, fenpyroximate, fensulfothion, fenthion, fenthion oxon, fenthion sulfone, fenthion sulfoxide, fipronil sulfone, fipronil, fipronil desulfenil, fluazifop-Bu, fluazinam, flubendiamide, fludioxonil, flufenacet, flufenoxuron, fluometuron, fluopicolide, fluopyram, fluorotrimazol, flusilazol, flutianil, flutolanil, flutriafol, fluxapyroxad, forchlorfenuron (cypu), formetanate HCl, fosthiazate, fuberidazol, furalaxyl, furathiocarb, haloxyfop, haloxyfop-p-Me, heptenophos, hexaconazol, hexaflumuron, hexazinon, hexythiazox, imazalil, imidacloprid, indoxacarb, iodosulfuron Me, iprovalicarb, isazophos, isofetamid, isoprocarb, isoprothiolane, isoproturon, isoxaflutole, jasmolin I, jasmolin II, kresoxim Me, lenacil, linuron, lufenuron, malaoxon, malathion, mandipropamide, mecarbam, mepanipyrim, mepronil, mesosulfuron Me, metaflumizone, metalaxyl, metconazole, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfox, methomyl, methoprene, methoxyfenozide, metolcarb, metrafenone, metribuzin, mevinphos, monocrotophos, monolinuron, myclobutanil, napropamide, neburon, nitenpyram, novaluron, nuarimol, ofurace, omethoate, oxadixyl, oxamyl, oxathiapiprolin, oxydemeton-Me, paclobutrazol, paraoxon Et, paraoxon Me, pebulate, penconazol, penthiopyrad, phenmedipham, phenyl-N urea, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosmet, phosmet oxon, phosphamidon, phoxim, picaridin, picolinafen, picoxystrobin, pinoxaden, piperonyl butoxide, pirimicarb, pirimicarb-desmethyl-formamido, pirimicarb-desmethyl, pirimiphos Et, pirimiphos Me, prochloraz, profenofos, profoxydim, promecarb, prometryn, propachlor, propanil, propaquizafop, propargite, propham, propiconazol, propoxur, propyzamid, proquinazid, prosulfocarb, pymetrozin, pyraclostrobin, pyrazophos, pyrethrin I, pyrethrin II, pyridaben, pyrimethanil, pyriofenone, pyriproxyfen, quinalphos, quinoxiphen, quizalofop p-Et, quizalofop-P-tefuryl, resmethrin, rotenone, sethoxydim, simazine, spinosynA, spinosynD, spinosynJ, spinosynL, spirotetramat, spirotetramat-monoOH, spiroxamine, sulfentrazone, sulfotep, sulfoxaflor, sulprophos, tebuconazol, tebufenozide, tebufenpyrad, teflubenzuron, tepraloxym, terbufos sulfone, terbufos sulfoxide, terbutometon, terbuthryn, terbuthylazine, tetrachlorvinphos, tetraconazol, thiabendazol, thiachloprid, thiamethoxam, thiodicarb, thiofanox, thiofanox sulfone, thiofanox sulfoxide, thiophanateMe, tolfenpyrad, tolyfluanid, tralkoxydim, triadimefon, triadimenol, triasulfuron, tribenuron Me, trichlorfon, tricyclazol, trifloxystrobin, triflumizol, triflumuron, triforine, triticonazol, tritosulfuron, uniconazol-P, valifenalate, vamidothion, zoxamide</p>	
<p>2a. Fruits and vegetables with high water content (stone fruits, pome fruits, fruiting vegetables, leaf vegetables, citrus fruits, root and tuber vegetables, stem vegetables, small fruits,</p>	<p>Residue-determination of 235 agricultural drugs: 2,4 D-ethylhexyl, acetochlor, acibenzolar-S-Me, aclonifen, acrinathrin, alachlor, aldrin, allethrin, amisulbrom, azaconazol, azinphos-Et, azinphos-Me, azoxystrobin, benalaxyl, bendiocarb, benfluralin, bifenox, bifenthrin, biphenyl, bitertanol, bromacil, bromocyclen, bromophos (-Me), bromophos-Et, bromopropylate, butafenacil, butralin, captan, carbaryl, carbosulfan, chinomethionate (oxythioquinox), chlordane cis, chlordane trans, chlorfenapyr, chlorfenson (ovex), chlorobenzilate, chloroneb, chlorothalonil, chlorpropham, chlorpyrifos (-Et), chlorpyrifos-Me, chlorthal-dimethyl (chlorthion),</p>	<p>In house method E_XM114/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
grape, tropical fruits, legume vegetables, brassica vegetables, bulb vegetables, fresh herbs, miscellaneous fruits as referred to Regulations (EU) 396/2005 and (EU) 600/2010)	<p>             chlozolate, clomazon, cloquintocet-mexyl, coumaphos, cyanophos, cyfluthrin, cyfluthrin-β, cyhalothrin-λ, cypermethrin, cypermethrin-α, cyproconazol, cyprodinil, DBCP (Dibromo-3-chloropropane, 1,2-), DDD-op', DDD-pp', DDE-pp', DDT-op, DDT-pp', DEET, deltamethrin, diazinon, dichlobenil, dichlofenthion, dichlofluanid, dichlorvos, 4,4-DiClbenzophenone, diclobutrazol, diclofop-methyl, dicloran, dieldrin, difenoconazol, diflufenican, dimethenamid, dimethipin, dimethoate, diniconazol, dinitramine, diphenamid, diphenylamine, disulfoton sulfone, dodemorph, endosulfan sulfate, endosulfan-α, endosulfan-β, endrin, EPN, epoxiconazol, EPTC, etaconazol, ethalfluralin, ethion, ethofumesate, ethoxyquin α, etofenprox, etridiazole (terrazole, echomezol), famoxadone, famphur (famophos), fenamidone, fenarimol, fenchlorphos, fenhexamid, fenitrothion, fenoxycarb, fenpropathrin, fenpropimorph, fenson, fenthion, fenthion sulfone, fenthion sulfoxide, fenvalerate, flonicamid, fluchloralin, flucythrinate, fludioxonil, flumetralin, flumioxazin, flupyradifurone, fluquinconazol, flutianil, flutriafol, fluvalinate-τ, folpet, fonofos (dyfonate), formothion, furathiocarb, HCH-α, HCH-β, HCH-γ (lindane), HCH-δ, heptachlor, heptachlor endo-epoxide trans, heptachlor exo-epoxide, hexachlorobenzene (HCB), hexaconazol, indoxacarb, iodofenphos (jodfenphos), ioxynil octanoate, iprobenfos, iprodione, IR3535, isocarbophos, isodrin, isofenphos, isofenphos-Me, isopropalin, kresoxim Me, leptophos, malaaxon, malathion, MCPA-ethylhexyl, MCPA-methyl, MCPA-thioethyl, mafenpyr-diethyl, metalaxyl, metazachlor, methacriphos, methidathion, methoprene, methoprotryne, methoxychlor, metolachlor, metribuzin, mevinphos, mirex, myclobutanil, nitralin, nitrapiyin, nitrofen, nitrothal-isopropyl, norflurazon, omethoate, o-phenylphenol, oxadiazon, oxyfluorfen, parathion (-Et), parathion-Me, pebulate, pencycuron, pendimethalin, pentachloroaniline, pentachloranisole, permethrin, perthan, phenthoate, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosmet, phthalimide, piperonyl butoxide, pirimiphos-Me, procymidone, profenofos, profluralin, propanil, propargite, propazin, propetamphos, propham, propiconazol, prothiophos, pyraclostrobin, pyridalyl, pyridafenthion, pyrifenoxy α, quinoxiphen, quintozone, resmethrin, S421, spiromesifen, tebuconazol, tecnazene, tefluthrin, terbacil, terbufos, terbufos sulfone, tetradifon, tetramethrin, tetrasul, TH phthalimide, thionazin, tolclorvos-Me, tralomethrin, transfluthrin, triadimefon, triadimenol, triallate, triazophos, trichloronate, trifloxystrobin, trifluralin, vinclozolin           </p> <p>             The symbols (α), next to some drugs denote that these drugs are excluded of the scope only for the following matrices:(α) pome fruit.           </p> <p>             2 additional agricultural drugs are determined in orange:              dicofol pp, dicofol op           </p>	
2b. Cereals and pulses	<p>             Residue-determination of 232 agricultural drugs:           </p> <p>             2,4 D-ethylhexyl, acetochlor, acibenzolar-S-Me, aclonifen, acrinathrin, alachlor, aldrin, allethrin, amisulbrom,-azaconazol, azinphos-Et, azinphos-Me, azoxystrobin, benalaxyl, bendiocarb, benfluralin, benfuracarb, bifenoxy, bifenthrin, biphenyl, bitertanol, bromacil, bromocyclen, bromophos (-Me), bromophos-Et, bromopropylate, butafenacil, butralin, carbaryl, carbosulfan, carboxin, chinomethionate (oxythioquinox), chlordane cis, chlordane trans, chlorfenapyr, chlorfenson (ovex), chlorobenzilate, chloroneb, chlorpropham, chlorpyrifos (-Et), chlorpyrifos-Me, chlorthal-dimethyl (chlorthion), chlozolate, clomazone, cloquintocet-mexyl, coumaphos, cyanophos, cyfluthrin, cyfluthrin-β, cyhalothrin-λ, cypermethrin, cypermethrin-α, cyproconazol, cyprodinil, DBCP (dibromo-3-chloropropane, 1,2-), DDD-op', DDD-pp', DDE-pp', DDT-op, DDT-pp', DEET, deltamethrin, diazinon, dichlobenil, dichlofenthion, dichlorvos, 4,4-DiClbenzophenone, diclobutrazol, diclofop-methyl, dicloran, dieldrin, difenoconazol, diflufenican, dimethenamid,           </p>	<p>             In house method E_XM114/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method           </p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>dimethipin, dimethoate, diniconazole, dinitramine, diphenamid, diphenylamine, disulfoton, disulfoton sulfone, dodemorph endosulfan sulfate, endosulfan a-, endosulfan b-, endrin, EPN, epoxiconazol, EPTC, etaconazol, ethalfluralin, ethion, ethofumesate, ethoxyquin, etofenprox, etridiazol, famoxadone, famphur (famophos), fenamidon, fenarimol, fenchlorphos, fenhexamid, fenitrothion, fenoxycarb, fenpropathrin, fenpropimorph, fenson, fenthion, fenthion sulfone, fenthion sulfoxide, fenvalerate, flonicamid, fluchloralin, flucythrinate, fludioxonil, flumetralin, flumioxazin, flupyradifurone, fluquinconazol, flutianil, flutriafol, fluvalinate-<math>\tau</math>, fonofos (dyfonate), formothion, furathiocarb, HCH-<math>\alpha</math>, HCH-<math>\beta</math>, HCH-<math>\gamma</math> (lindane), HCH-<math>\delta</math>, heptachlor, heptachlor endo-epoxide trans, heptachlor exo-epoxide, hexachlorobenzene (HCB), hexaconazol, indoxacarb, iodofenphos (jodfenphos), ioxynil octanoate, iprobenphos, iprodione, IR3535, isocarbophos, isodrin, isofenphos, isofenphos-methyl, isopropalin, kresoxim Me, leptophos, malaixon, malathion, MCPA-ethylhexyl, MCPA-methyl, MCPA-thioethyl, mepfenpyr-diethyl, metalaxyl, metazachlor, methacriphos, methidathion, methoprene, methoprothryne, methoxychlor, metolachlor, metribuzin, mevinphos, mirex, myclobutanil, nitralin, nitrapyrin, nitrofen, nitrothal-isopropyl, norflurazon, omethoate, o-phenylphenol, oxadiazon, oxyfluorfen, parathion (-Et), parathion-Me, pebulate, pencycuron, pendimethalin, pentachloroaniline, pentachloranisole, permethrin, perthan, phentoate, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosmet, piperonyl butoxide, pirimiphos-Me, procymidone, profenofos, profluralin, propanil, propargite, propazine, propetamphos, propham, propiconazol, prothiophos, pyraclostrobin, pyridalyl, pyridafenthion, pyrifenox, quinoxiphen, quintozene, resmethrin, S421, spiromesifen, tebuconazol, tecnazen, tefluthrin, terbacil, terbufos, terbufos sulfone, tetradifon, tetramethrin, tetrasul, thionazin, tolclorophos Me, tralomethrin, transfluthrin, triadimefon, triadimenol, triallate, triazophos, trichloronate, trifloxystrobin, trifluralin, vinclozolin</p>	
2c. Milk and milk products	<p>Residue-determination of 239 agricultural drugs:</p> <p>2,4 D-ethylhexyl, Acetochlor, Acibenzolar-S-methyl, Aclonifen, Acrinathrin, Alachlor, Aldrin, Allethrin, Amisulbrom, Amitraz, Azaconazole, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benfluralin, Benfuracarb, Bifenox, Bifenthrin, Biphenyl, Bitertanol I+II, Bromacil, Bromocyclen, Bromophos (-Me), Bromophos-Et, Bromopropylate, Butafenacil, Butralin, Captan, Carbaryl, Carbosulfan, Carboxin, Chinomethionate (Oxythioquinox), Chlordane-cis (alpha), Chlordane-trans (gamma), Chlorfenapyr, Chlorfenson, Chlorobenzilate, Chloroneb, Chlorothalonil, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthal-dimethyl (DCPA, Dacthal), Chlozolate, Clomazone, Cloquintocet-mexyl, Coumaphos, Cyanophos, Cyfluthrin-4p, Cyfluthrin-beta, Cyhalothrin (lambda), Cypermethrin-4p, Cypermethrin-alpha, Cyproconazole, Cyprodinil, DBCP (Dibromo-3-chloropropane, 1,2-), DDD-o,p', DDD-p,p', DDE-p,p', DDT-o,p', DDT-p,p', DEET, Deltamethrin, Diazinon, Dichlobenil (Dichlorobenzonitrile-2,6), Dichlofenthion, Dichlofluanid, Dichlorvos, DiClBnzphnn-4,4, Diclobutrazol, Diclofop-methyl, Dicloran (Dichloran), Dieldrin, Difenoconazol, Diflufenican, Dimethenamid, Dimethipin, Dimethoate, Diniconazole, Dinitramine, Diphenamid, Diphenylamine, Disulfoton, Disulfoton Sulfone, Dodemorph, Endosulfan I (alpha isomer), Endosulfan II (beta isomer), Endosulfan sulfate, Endrin, EPN, Epoxiconazol, EPTC, Etaconazol I+II, Ethalfluralin, Ethion, Ethofumesate, Ethoxyquin, Etofenprox, Etridiazole (Terrazole, Echomezol), Famoxadone, Famphur, Fenamidone, Fenarimol, Fenchlorphos, Fenhexamid, Fenitrothion, Fenoxycarb, Fenpropathrin, Fenpropimorph, Fenson, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenvalerate, Flonicamid, Fluchloralin, Flucythrinate, Fludioxonil, Flumetralin, Flumioxazin, Flupyradifurone, Fluquinconazole, Flutianil, Flutriafol, Fluvalinate-tau, Folpet, Fonofos, Formothion, Furathiocarb, HCH-<math>\alpha</math>, HCH-<math>\beta</math>, HCH-<math>\gamma</math>, HCH-<math>\delta</math>, Heptachlor, Heptachlor endo-epoxide trans (isomer A), Heptachlor exo-epoxide (isomer B), Hexachlorobenzene (HCB), Hexaconazol,</p>	In house method E_XM114/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>Indoxacarb, Iodofenphos (Jodfenphos), Ioxynil octanoate, Iprobenfos, Iprodione, IR3535, Isocarbophos, Isodrin, Isopenphos, Isophenphos-methyl, Isopropalin, Kresoxim Me, Leptophos, Malaaxon (metabolite of Malathion), Malathion, MCPA-ethylhexyl, MCPA-methyl, MCPA-thioethyl, Mefenpyr-diethyl, Metalaxyl, Metazachlor, Methacrifos, Methidathion, Methoprene, Methoprotryne, methoxychlor, Metolachlor, Metribuzin, Mevinphos, Mirex, Myclobutanil, Nitralin, Nitrpyrin, Nitrofen, Nitrothal-isopropyl, Norflurazon, Omethoate, o-Phenyl phenol, Oxadiazon, Oxyfluorfen, Parathion, Parathion-methyl, Pebulate, Pencycuron, Pendimethalin (Penoxaline), Pentachloroaniline, Pentachloroanisole, Permethrin, Perthan, Phenthoate, Phorate, Phorate sulfone, Phorate sulfoxide, Phosalone, Phosmet, Phthalimide, Piperonyl butoxide, Pirimiphos-methyl, Procymidone, Profenofos, Profluralin, Propanil (DCPA), Propargite, Propazine, Propetamphos, Propham, Propiconazol, Prothiophos, Pyraclostrobin, Pyridalyl, Pyridaphenthion, pyrifenox, Quinoxifen, Quintozene, Resmethrin, S421 (Octachlorodipropyl ether), Spiromesifen, Tebuconazol, Tecnazene (TCNB), Tefluthrin, Terbacil, Terbufos, Terbufos sulfone, Tetradifon, Tetramethrin I+II, Tetrasul, TH Phthalimide, Thionazin, Tolclofos-methyl, Tralomethrin, Transfluthrin, Triadimefon, Triadimenol, Triallate, Triazophos, Trichloronat, Trifloxystrobin, Trifluralin, Vinclozolin</p>	
<p>2d. Non edible leaves of plants and trees</p>	<p>Residue-determination of 230 agricultural drugs:</p> <p>2,4 D-ethylhexyl, Acetochlor, Acibenzolar-S-methyl, Aclonifen, Acrinathrin, Alachlor, Aldrin, Amisulbrom, Azaconazole, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benfluralin, Benfuracarb, Bifenox, Bifenthrin, Biphenyl, Bitertanol I+II, Bromacil, Bromocyclen, Bromophos (-Me), Bromophos-Et, Bromopropylate, Butafenacil, Butralin, Carbaryl, Carbosulfan, Carboxin, Chinomethionate (Oxythioquinox), Chlordane-cis (alpha), Chlordane-trans (gamma), Chlorfenapyr, Chlorfenson, Chlorobenzilate, Chloroneb, Chlorothalonil, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthal-dimethyl (DCPA, Dacthal), Chlozolinat, Clomazone, Cloquintocet-mexyl, Coumaphos, Cyanophos, Cyfluthrin-4p, cyfluthrin-β, Cyhalothrin (lambda), Cypermethrin-4p, cypermethrin-α, Cyproconazole, Cyprodinil, DBCP (Dibromo-3-chloropropane, 1,2-), DDD-o,p', DDD-p,p', DDE-p,p', DDT-o,p', DDT-p,p', DEET, Deltamethrin, Diazinon, Dichlobenil, (Dichlorobenzonitrile-2,6), Dichlofenthion, Dichlofluanid, Dichlorvos, DiClbenzophenone-4,4, Diclobutrazol, Diclofop-methyl, Dicloran (Dichloran), Dieldrin, Difenconazol, Diflufenican, Dimethenamid, Dimethipin, Dimethoate, Diniconazole, Dinitramine, Diphenamid, Diphenylamine, Disulfoton, Disulfoton Sulfone, Dodemorph, Endosulfan I (alpha isomer), Endosulfan II (beta isomer), Endosulfan sulfate, Endrin, EPN, Epoxiconazol, EPTC, Etaconazol I+II, Ethalfluralin, Ethion, Ethofumesate, Ethoxyquin, Etofenprox, Etridiazole (Terrazole, Echomezol), Famoxadone, Famphur, Fenamidone, Fenarimol, Fenchlorphos, Fenhexamid, Fenitrothion, Fenoxycarb, Fenpropathrin, Fenpropimorph, Fenson, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenvalerate, Flonicamid, Fluchloralin, Flucythrinate, Fludioxonil, Flumetralin, Flumioxazin, Flupyradifurone, Fluquinconazole, Flutianil, Flutriafol, Fluvalinate-tau, Fonofos, Formothion, Furathiocarb, HCH-α, HCH-β, HCH-γ, HCH-δ, Heptachlor, Heptachlor endo-epoxide (isomer A), Heptachlor exo-epoxide (isomer B), Hexachlorobenzene (HCB), Hexaconazol, Indoxacarb, Iodofenphos (Jodfenphos), Ioxynil octanoate, Iprobenfos, Iprodione, IR3535, Isocarbophos, Isodrin, Isopenphos, Isophenphos-methyl, Isopropalin, Kresoxim Me, Leptophos, Malathion, MCPA-ethylhexyl, MCPA-methyl, MCPA-thioethyl, Mefenpyr-diethyl, Metalaxyl, Metazachlor, Methacrifos, Methidathion, Methoprene, Methoprotryne, methoxychlor, Metolachlor, Metribuzin, Mevinphos, Mirex, Myclobutanil, Nitralin, Nitrpyrin, Nitrofen, Nitrothal-isopropyl, Norflurazon, Omethoate, o-Phenyl phenol, Oxadiazon, Oxyfluorfen, Parathion, Parathion-methyl, Pebulate, Pendimethalin (Penoxaline), Pentachloroaniline, Pentachloroanisole, Permethrin, Perthan, Phenthoate, Phorate, Phorate sulfone,</p>	<p>In house method E_XM114/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	Phorate sulfoxide, Phosalone, Phosmet, Piperonyl butoxide, Pirimiphos-methyl, Procymidone, Profenofos, Profluralin, Propanil (DCPA), Propazine, Propetamphos, Propham, Propiconazol, Prothiophos, Pyraclostrobin, Pyridalyl, Pyridaphenthion, Pyrifenox, Quinoxifen, Quintozene, S421 (Octachlorodipropyl ether), Spiromesifen, Tebuconazol, Tecnazene (TCNB), Tefluthrin, Terbacyl, Terbufos, Terbufos sulfone, Tetradifon, Tetramethrin I+II, Tetrasul, TH Phthalimide, Thionazin, Tolclofos-methyl, Tralomethrin, Transfluthrin, Triadimefon, Triadimenol, Triallate, Triazophos, Trichloronat, Trifloxystrobin, Trifluralin, Vinclozolin	
<p>3. a) Fruits and vegetables with high water 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 and (EU) 600/2010)</p> <p>b) Tobacco leaves, wet or dried</p>	Residue-determination of dithiocarbamate agricultural drugs and thiram	In house method E_XM100/ EN 12396-1: 1999 (colorimetry of CS2 complex)
<p>4. Plant origin products with high fat content (more than 5%) (Vegetable oils and fats, oilseeds (sesame seeds, cottonseed, soya, etc.), miscellaneous (olives, avocado, etc.))</p>	Residue-determination of 201 agricultural drugs: acetamiprid, acibenzolar-S-Me, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametryn, atrazine, azoxystrobin, benalaxyl, benomyl, bifenazate, bitertanol, boscalid, bromacil, bromuconazole, bupirimate, buprofezin, cadusaphos, captafol, carbaryl, carbendazim, carbofuran, 3-OH carbofuran, chlordinafop propargyl, chlorfenvinphos, chloridazon, climbazol, clofentezine, clothianidine, coumaphos, 4-CPA, crimidine, cyanazine, cymoxanil, cyproconazol, 2,4D, demeton-S-Me, demeton-S-Me sulfone, desmedipham, desmethyl-pirimicarb, desmethyl-formamido-pirimicarb, desmetryn, diazinon, dichlorprop, dichlorvos, diclobutrazol, diclotophos, diethofencarb, diflubenzuron, dimethoate, dimethomorph e+z, dimoxystrobin, diniconazol, ditalimfos, diuron, DMST, etaconazol, ethofumesate, ethoprophos, etrimfos, famoxadone, fenbuconazol, fenhexamid, fenoxaprop-P-Et, fenoxycarb, fensulfothion, fenthion, fenthion oxon, fenthion sulfone, fenthion sulfoxide, fipronil, fluazifop-Bu, flubendiamide, fludioxonil, flufenacet, fluopicolide, fluorotrimazol, flusilazol, flutriafol, forchlorfenuron (CPPU), fosthiazate, fuberidazol, furalaxyl, heptenophos, hexaconazol, hexaflumuron, hexazinon, imidacloprid, indoxacarb, iodosulfuron-Me, iprovalicarb, isazophos, isoprocarb, isoprothiolane, isoproturon, isoxaflutole, kresoxim-Me, lenacil, linuron, lufenuron, malaoxon, malathion, mandipropamide, MCPA, mecarbam, Mecoprop, mepanipyrim, mepronil, mesosulfuron-Me, metalaxyl, methabenzthiazuron, methacriphos, methidathion, methiocarb, methiocarb sulfone, methiocarb sulfox, methomyl, methoxyfenozide, metolcarb, mevinphos, monocrotophos, myclobutanil, $\beta$ -naphthoxyacetic acid, napropamide, neburon, nicosulfuron, nitralin, nuarimol, ofurace, omethoate, oxadixyl, oxamyl, oxydemeton-Me, paclobutrazol, paraoxon-Et, paraoxon-Me, parathion-Et, penconazol, phenmedipham, phosalone, phosmamidon, phosmet,	In house method E_XM117/ LC-MS/MS, based on SANTE/11312/2021 and EURL-FV M6 method



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>picolinafen, picoxystrobin, piperonyl butoxide, pirimicarb, pirimiphos-Et, pirimiphos-Me, prochloraz, profenofos, promecarb, prometryn, propachlor, propanil, propaquizafop, propham, propiconazol, propoxur, propyzamid, pyraclostrobin, pyrazophos, pyrethrin I, pyrethrin II, pyrimethanil, quinalphos, quizalofop-P-Et, quizalofop-P-tefuryl, rimsulfuron, rotenone, simazine, spirotetramat, sulfentrazone, sulfotep, tebuconazol, tebufenozide, teflubenzuron, tepraloxydim, terbumeton, terbuthryn, terbuthylazine, tetrachlorvinphos, tetraconazol, thiabendazol, thiachloprid, thiamethoxam, thiodicarb, thiofanox, thiofanox sulfone, thiofanox sulfoxide, thiophanate-Me, tolyfluanid, triadimefon, triadimenol, trichlorfon, tricyclazol, trifloxystrobin, triflumizol, triflumuron, triforine, triticonazol, uniconazol-P</p> <p>10 additional agricultural drugs are determined in vegetable oils and fats: acephate, chlroranthranilprole, cyprodinil, cyromazin, dipropetryn, methamidophos, metribuzin, prosulfocarb, tebufenpyrad, terbacil</p> <p>25 additional agricultural drugs are determined in olives: benthiovalicarb isopropyl, bromoxynil, carfentrazone, chlorantranilprole, cyazofamid, cyflufenamid, dodine, emamectin benzoate, ethionfencarb, ethirimol, fenamiphos, fluazinam, haloxyfop, imazalil, mesotrione, metrafenone, novaluron, propargite, pymetrozin, spinosynA, spinosynD, spiroxamine, tribenuron-Me, triclopyr, zoxamide</p>	
<p>5. Plant origin products with high fat content (more than 5%) (Vegetable oils and fats, oilseeds (sesame seeds, cottonseed, soya, etc.), miscellaneous (olives, avocado, etc.))</p>	<p>Residue-determination 219 agricultural drugs:</p> <p>2,4 D-ethylhexyl, acetochlor, acibenzolar-S-Me, aclonifen, acrinathrin,alachlor, aldrin, allethrin, amisulbrom, azaconazole, azinphos-Et, azinphos-Me, azoxystrobin, benalaxyl, bendiocarb, benfluralin, bifenox, bifenthrin, biphenyl, bitertanol, bromacil, bromocyclen, bromophos (-Me), bromophos-Et, bromopropylate, butafenacil, butralin, carbaryl, chinomethionate (oxythioquinox), chlordane cis, chlordane trans, chlorfenapyr, chlorfenson (ovex), chlorobenzilate, chloroneb, chlorothalonil, chlorpropham, chlorpyriphos (-Et), chlorpyriphos-Me, chlorthal-dimethyl, chlozolate, clomazon, cloquintocet-mexyl, coumaphos, cyanophos, cyfluthrin, cyfluthrin-β, cyhalothrin-λ, cypermethrin, cypermethrin-α, cyproconazol, cyprodinil, DDD-op', DDD-pp', DDE-pp', DDT-op, DDT-pp', DEET, deltamethrin, diazinon, dichlobenil, dichlofenthion, dichlofluanid, dichlorvos, 4,4-DiClbenzophenone, diclobutrazol, diclofop-Me, dieloran, dieldrin, difenoconazol, diflufenican, dimethenamid, dimethipin, dimethoate, diniconazol, dinitramine, diphenamid, diphenylamine, disulfoton sulfone, endosulfan-α, endosulfan-β, endosulfan sulfate, endrin, EPN, epoxiconazol, EPTC, etaconazol, ethalfluralin, ethion, ethofumesate, ethoxyquin, etofenprox, etridiazol, famoxadone, famphur (famophos), fenamidon, fenarimol, fenchlorphos, fenhexamid, fenitrothion, fenoxycarb, fenpropathrin, fenson, fenthion, fenthion sulfone, fenthion sulfoxide, fenvalerate, flonicamid, fluchloralin, flucythrinate, fludioxonil, flumetralin, flumioxazin, flupyradifurone, fluquinconazol, flutianil, flutriafol, fluvalinate-τ, fonofos (dyfonate), formothion, furathiocarb, HCH-α, HCH-β, HCH-γ (lindane), HCH-δ, heptachlor, heptachlor epoxide endo, heptachlor epoxide exo, hexaconazol, indoxacarb, iodofenphos (jodfenphos), ioxynil octanoate, iprobenphos, iprodione, IR3535, isocarbophos, isofenphos, isofenphos-methyl, isopropalin, kresoxim Me, leptophos, malaaxon, malathion, MCPA-ethylhexyl, MCPA-methyl, MCPA-thioethyl, mephenpyr-diethyl, metalaxyl, metazachlor, methacriphos, methidathion, methoprothryne, methoxychlor, metolachlor, metribuzin, mevinphos, myclobutanil, nitralin, nitrapyrin, nitrofen, nitrothal-isopropyl, norflurazon, omethoate, o-phenylphenol, oxadiazon, oxyfluorfen, parathion (-Et), parathion-Me, pebulate, pendimethalin, pentachloroaniline, permethrin, perthan, phenthoate, phorate,</p>	<p>In house method E_XM118/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M6 method</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>phorate sulfone, phorate sulfoxide phosalone, phosmet, piperonyl buroside, pirimiphos-Me, procymidone, profenofos, profluralin, propanil, propargite, propazin, propetamphos, propham, propiconazol, prothiophos, pyraclostrobin, pyridalyl, pyridafenthion, pyrifenox, quinoxiphen, quintozene, resmethrin, spiromesifen, tebuconazol, tecnazene, tefluthrin, terbacil, terbufos, terbufos sulfone, tetradifon, tetramethrin, thionazin, tolclophos-Me, tralomethrin, transfluthrin, triadimefon, triadimenol, triallate, triazophos, trichloronat, trifloxystrobin, trifluralin, vinclozolin</p> <p>10 additional agricultural drugs are determined in vegetable oils and fats: benfuracarb, captan, carbosulfan, folpet, isodrin, pencycuron, pentachloranisole, phthalimide, S421, TH phthalimide</p> <p>1 additional agricultural drug is determined in olives: fenpropimorph</p>	
6. Fruits and vegetables, cereals and pulses	1. Residue-determination of polar agricultural drugs: chlorate, chlormequat, ethephon, fosetyl-Al, glyphosate, mepiquat, perchlorate, phosphonic acid, fosetyl	In-house method E_XM115 §A/ LC-MS/MS based on EURL-SRM, QuPPE-Method, Version 9.3
	2. Residue-determination of polar agricultural drugs: ethylenothiurea (ETU) & propylenothiurea (PTU)	In-house method E_XM115 §B/ LC-MS/MS based on EURL-SRM, QuPPE-Method, Version 9.3
7. High sugar content products (honey, fruit jams, etc)	1. Residue-determination of agricultural drugs: Amitraz, coumaphos, tau-fluvalinate, malathion, bromopropylate, acrinathrin, 1,4-dichlorobenzene	In house method E_XM116/ GC-MS/MS based on SANTE/11312/2021 and EURL-FV M4 method
	2. Residue-determination of agricultural drugs: acetamiprid, amitraz and the corresponding metabolites DMF και DMPF, carbendazim, chlorfenvinphos, clothianidin, coumaphos, DEET, flumethrin, imidachloprid, malaoxon, malathion, thiachloprid, thiamethoxam	In house method E_XM116/ LC-MS/MS based on SANTE/11312/2021 and EURL-FV M4 method
8. Milk and honey	Determination of antibiotics: Sulfonamides, tetracyclines, penicillin G, penicillin V, chloramphenicol, trimethoprim, natamycin, flumequine, fumagilline, carbadox	In-house method E_XM121/ LC-MS/MS based on J. Agric. Foods Chem., 2008, Vol 56 (5), p.1553-1559 and J. Chromat. B, 2011, Vol.879 (25), p.2601-2610
9. Cereals and feeds, meat-fish	Determination of antibiotics: Sulfonamides, tetracyclines, penicillin G, penicillin V, chloramphenicol, trimethoprim, natamycin, flumequine, fumagilline, carbadox	In-house method E_XM122/ LC-MS/MS based on AOAC 999.16 and AOAC 977.37
10. Feeds	Determination of coccidiostatics	In-house method E_XM110/ LC-MS/MS based on AB SCIEX 2011, Publication number 4482011-01



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
11. High water content foods, cereals, dairy products	Determination of K, Na, Ca, Mg	In-house method E_XM107/ AAS based on AOAC 985.35
12. Foods and feeds	Determination of 18 elements (total): Al, As, Ca, Cd, K, Sn, Mn, Mg, Pb, Na, Ni, Se, Fe, Hg, P, Cu, Cr, Zn	In-house method E_XM109/ ICP – MS based on a) USFDA, Elemental Analysis Manual, Sect. 4.7, ver.1.2 Feb/2020, (b) EN 17053:2018, (c) EN 15765:2010
13. Milk (fresh, concentrated or solid)	Determination of Aflatoxin M1	In house method E_XM037/ HPLC-FLD based on ISO 14501:2021
14. Raisin, grape, coffee, clover, cereals	Determination of Ochratoxin A	In house method E_XM001/ HPLC/ FLD
15. Cereals, Dried nuts	Determination of Aflatoxin G1, G2, B1, B2	In house method E_XM002/ HPLC/ FLD
16. Tree nuts -Oil seeds, dried fruits, fruits, vegetables, cereals, seasonings and feeds	Determination of aflatoxins B1, B2, G1, G2	In house method E_XM003/ HPLC, post-column derivsn. - FLD based on AOAC 999.07 modified
17. Cereals	Determination of Fumonisin B1 & B2	In house method E_XM123 §A/ LC-MS/MS
18. Cereals and feeds	Determination of aflatoxins B1, B2, G1, G2, ochratoxin A (OTA), zearalenone (ZON), deoxynivalenol (DON), diacetoxyscirpenol (DAS), T-2 και HT-2	In house method E_XM123 §B/ LC-MS/MS based on J. Chromatography A, 1062 (2005), p.209-16
19. Foods, feeds, supplements and baby foods	1. Determination of vitamin A and E	In-house method E_XM111/ HPLC/ DAD & FLD based on AOAC 2001.13 and 971.30
	2. Determination of vitamin D	In-house method E_XM112/ LC-MS/MS based on AOAC 936.14
20. Cereals and pulses	Water and volatile matter content	In-house method E_XM040 in T~ 130°C based on ISO 712-2009 and ISO 24557-2009/ Gravimetric
21. Foods, agricultural products	Determination of total nitrogen and protein content	In house method E_XM015, Kjeldahl based on method ISO 20483:2013 & AOAC 2001.14
22. Foods	Determination of fatty mater	In-house method E_XM017 by acidic and alkaline hydrolysis based on AOAC 963.15, 933.05, 948.15, 922.06, 905.02



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
23. Honey	1. Determination of diastase activity	In house method E_XM004 based on: International Honey Commission 6.2 Phadebas/ Spectrophotometry
	2. Determination of HMF (hydroxymethylfufural) in honey	In house method E_XM041 based on: International Honey Commission 5.2 Determination of hydroxymethylfufural after White/ Spectrophotometry
	3. Determination of % thyme pollen grains in honey (Pollen analysis)	In house method E_XM029 based on: Methods of Melissopalynology J. Louveaux, Anna Maurizio & G. Vorwohl
	4. Sugars	In house method E_XM044 based on: International Honey Commission 7.2 Determination of sugars by HPLC-RI
24. Meat and meat products	1. Determination of NO <sub>2</sub> -	In house method E_XM030 based on: ISO 2918:1975/ Spectrophotometry
	2. Determination of NO <sub>3</sub> -	In house method E_XM030 based on: ISO 3091:1975/ Spectrophotometry
	3. Determination of Ash	In house method E_XM036 based on: ISO 936:1998/ Gravimetric
	4. Determination of Moisture and Dry total matter	In house gravimetric method E_XM040 in T ~ 105°C based on ISO 1442:2023
	5. Determination of Sodium Chloride (NaCl)	In house method E_XM039 based on AOAC 935.47/ Volumetric
	6. Sugars	In house method E_XM043/ HPLC-RI based on AOAC 977.20
25. Foods except for alcoholic beverages, wines, grapes, blueberries and vinegar	Determination of sulphur dioxide	In house method E_XM035 based on Method D2/ Food and Beverage Code Part B/ Volumetric



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
26. Foodstuffs	1. Determination of Acrylamide	In house method E_XM025/ GC-ECD based on Journal of Chromatography A, 1116 (2006) 209-216
		In house method E_XM102/ LC-MS/MS based on J. Critical Reviews in Analytical Chemistry, Vol 44 (2014), p.107-141
	2. Determination of Benzoic and/or Sorbic acid	In house method E_XM034/ HPLC-DAD based on ISO 22855:2008
27. Foods, supplements and baby foods	Determination of Vitamin C	In house method E_XM088/ HPLC-DAD
28. Potable waters	1. Determination of Conductivity	In house method E_XM012 based on APHA 2510
	2. Determination of Nitrate ions in drinking and ground water	In house method E_XM019 based on APHA 4500-NO3 B
29. Water	Determination of acrylamide	In house method E_XM101/ LC-MS/MS
30. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Determination of 29 elements (dissolved): Li, Be, B, Na, Mg, Al, P, K, Ca, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Sr, Mo, Ag, Cd, Sn, Sb, Ba, Hg, Tl, Pb	In house method E_XM108/ ICP – MS based on (a) ISO 17294-2:2023, (b) USEPA 6020A
31. Water drinking, and ground (drilling etc.)	Determination of volatile halogenated hydrocarbons: Chloroform, bromodichloromethane, dibromochloromethane, bromoform, trichloroethene, tetrachloroethene	In-house method E_XM103/ GC-ECD
32. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Determination of 8 PAH's: benzo(a)anthracene, chrysene, benzo(b)fluranthene, benzo(a)pyrene, indeno (1,2,3-c. d) pyrene, dibenzo (a, h) anthracene, benzo (g, h, i) perylene, benzo(k)fluoranthene	In-house method E_XM104/ GC-MS/MS based on USEPA 3510C (EPA 8270)
33. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Determination of polychlorinated biphenyls (PCBs) and polychlorinated terphenyls (PCTs): PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180 & 2,5-dichloro-p-terphenyl, 2,4,6-trichloro-p-terphenyl, 2,3,5,6-tetrachloro-p-terphenyl, 2,3,4,5,6-pentachloro-p-terphenyl	In-house method E_XM105/ GC-MS/MS based on USEPA 8082A
34. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Determination of Phenolic compounds: phenol, 2-chlorophenol, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 2,6- dichlorophenol, 4-chloro-3-methylphenol, 2,4,6-trichlorophenol, 2,4-dinitrophenol, 4- nitrophenol, 2,3,4,6-tetrachlorophenol, pentachlorophenol, 2-methyl-4,6- dinitrophenol	In-house method E_XM106/ GC-MS/MS based on USEPA 528
35. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Residue-determination of 301 agricultural drugs: abamectin, acephate, acetamiprid, acetochlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, ametoctradin, ametryn, amitraz, atrazine, azadirachtin Na, azoxystrobin, benalaxyl, bendiocarb, benthiovalicarb isopropyl, bifenazate, bitertanol, boscalid, bromacil, bromoxynil, bromuconazole, bupirimate, buprofezin, butocarboxim, butocarboxim sulfoxide, cadusaphos, carbaryl,	In-house method E_XM119/ LC-MS/MS based on USEPA 3510C



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>carbendazim, carbofenthion, carbofuran, carbofuran,3-OH, carboxin, carfentrazoneEt, chlorantraniliprole, chlorfenvinphos, chloridazon, chlorosulfuron, chlorpyriphos (-Et), chlorpyriphos-Me, cinerin I, cinerin II, clethodim, climbazol, clodinafop propargyl, clofentezine, clothianidine, coumaphos, crimidine, cyanazine, cyazofamid, cycloate, cycloxydim, cyflufenamid, cyproconazol, cyprodinil, cyromazin, DEET, demetonO/S, demeton-S-Me, demeton-S-Mesulfone, desmethryn, diazinon, dibrom (naled), dichlorvos, diclobutrazol, dicrotophos, diethofencarb, difenoconazol, diflubenzuron, dimefox, dimethoate, dimethomorph e+z, dimoxystrobin, diniconazol, dinotefuran, dipropetryn, disulfoton sulfone, disulfoton sulfoxide, diuron, DMF, DMPF, DMST, dodemorph, dodine, emamectin benzoate, etaconazol, ethionfencarb, ethiofencarb sulfoxide, ethirimol, ethofumesate, ethoprophos, etofenprox, etoxazol, etrimfos, fenamiphos, fenamiphos sulfone, fenamiphos sulfoxide, fenazaquin, fenbuconazol, fenhexamid, fenoxaprop-P-Et, fenoxycarb, fenpropidin, fenpyroximate, fensulfothion, fenthion, fenthion oxon, fenthion sulfone, fenthion sulfoxide, fipronil, fipronil sulfone, florasulam, fluazifop, fluazifop-Bu, fluazinam, flubendiamide, fludioxonil, flufenacet, flufenoxuron, fluometuron, fluopicolide, fluopyram, fluorotrimazol, flusilazol, flutianil, flutolanil, flutriafol, fluxapyroxad, forchlorfenuron (cppu), fosthiazate, fuberidazol, furalaxyl, furathiocarb, haloxyfop, haloxyfop-p-Me, heptenophos, hexaconazol, hexaflumuron, hexazinon, hexythiazox, imazalil, imidacloprid, indoxacarb, iodosulfuron Me, ioxynil, iprovalicarb, isazophos, isofetamid, isoprocab, isoprothiolane, isoproturon, isoxaflutole, kresoxim Me, lenacil, linuron, lufenuron, malaoxon, malathion, mandipropamide, mecarbam, mepanipyrim, mepronil, mesosulfuron Me, metaflumizone, metalaxyl, metconazole, methabenzthiazuron, methamidophos, methidathion, methiocarb, methiocarb sulfoxide, methomyl, methoprene, methoxyfenozide, metolcarb, metrafenone, metribuzin, metsulfuron, mevinphos, monocrotophos, monolinuron, myclobutanil, napropamide, neburon, nicosulfuron, nitenpyram, novaluron, nuarimol, ofurace, omethoate, oxadixyl, oxamyl, oxathiapiprolin, oxydemeton-Me, paclobutrazol, paraoxon-Et, paraoxon-Me, pebulate, penconazol, penthiopyrad, phenyl-N urea, phorate, phorate sulfone, phorate sulfoxide, phosalone, phosphamidon, phoxim, picaridin, picolinafen, picoxystrobin, pinoxaden, piperonyl butoxide, pirimicarb, pirimicarb-desmethyl-formamide, pirimicarb-desmethyl, pirimiphos-Et, pirimiphos-Me, prochloraz, profenofos, profoxydim, promecarb, prometryn, propachlor, propamocarb, propanil, propaquizafop, propargite, propham, propiconazol, propoxur, propyzamid, proquinazid, prosulfocarb, pymetrozin, pyraclostrobin, pyrazophos, pyrethrin I, pyrethrin II, pyridaben, pyrimethanil, pyriofenone, pyriproxyfen, pyroxsulam, quinalphos, quinoxiphen, quizalofop-p-Et, quizalofop-p-tefuryl, resmethrin, rimsulfuron, rotenone, sethoxydim, simazine, spinosynA, spinosynD, spinosynJ, spinosynL, spiroadiclofen, spirotetramat, spirotetramat-monoOH, spiroxamine, sulfentrazone, sulfotep, sulfoxaflor, sulprophos, tebuconazol, tebufenozide, tebufenpyrad, teflubenzuron, tepraloxydim, terbufos sulfone, terbufos sulfoxide, terbuteton, terbuthryn, terbuthylazine, tetrachlorvinphos, tetraconazol, thiabendazol, thiachlorid, thiamethoxam, thifensulfuron-Me, thiodicarb, thiofanox, thiofanox sulfone, thiofanox sulfoxide, thiophanate-Me, tolfenpyrad, tralkoxydim, triadimefon, triadimenol, triasulfuron, tricyclazol, trifloxystrobin, triflumizol, triflumuron, triforine, triticonazol, uniconazol-P, valifenalate, vamidothion, zoxamide</p>	
36. Water drinking, surface (sea water etc.) and ground (drilling etc.) intended for direct or not human consumption	Residue-determination of 166 agricultural drugs: acibenzolar-S-Me, aclonifen, acrinathrin,alachlor, aldrin, amitraz, azaconazol, azinphos-Et, azinphos-Me, benalaxyl, benfluralin, benfuracarb, bifenox, bifenthrin, bitertanol (2p), bromacil, bromocyclen, bromophos Et, bromophos Me, bromopropylate, butafenacil, carbaryl, chlordane cis, chlordane trans,	In-house method E_XM120/ GC-MS/MS based on USEPA 3510C



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	<p>chlorfenapyr, chlorfenson (ovex), chlorobenzilate, chlorpropham, chlorpyrifos (-Et), chlorpyrifos-Me, chlorthal-dimethyl, clomazon, cloquintocet-mexyl, cyanophos, cyfluthrin (4p.), cyfluthrin-β, cyhalothrin-λ, cypermethrin (4p.), cypermethrin-α, cyproconazol, DDD-op', DDD-pp', DDE-pp', DDT-op, DDT-pp', deltamethrin, diazinon, dichlofenthion, dichlofluanid, dichlorvos, 4,4-DiClbenzophenone, diclobutrazol, dicloran, dieldrin, difenoconazol, diflufenican, dimethenamid, dimethoate, diniconazol, diphenamid, diphenylamine, endosulfan sulfate, endosulfan a-, endosulfan b-, endrin, EPN, epoxiconazol, etaconazol, ethalfluralin, ethion, ethofumesate, etofenprox, famoxadone, famphur (famophos), fenamidon, fenarimol, fenchlorphos, fenitrothion, fenpropathrin, fenpropimorph, fenson, fenthion, fenthion sulfone, fenthion sulfoxide, fenvalerate (2p.), fluchloralin, flucythrinate, flumioxazin, fluquinconazol, flutriafol, fluvalinate-τ, fonofos ((dyfonate)), HCB, HCH delta, HCH-α, HCH-β, HCH-γ, heptachlor, heptachlor epox. endo, heptachlor epox. exo, iprobenphos, iprodione, isocarbophos, isodrin, isofenphos, isofenphos-methyl, jodfenphos, leptophos, malaaxon, malathion, mefenpyr-diethyl, metalaxyl, metazachlor, methacirphos, methidathion, methoprothryne, methoxychlor, metolachlor, metribuzin, mevinphos, myclobutanil, nitralin, nitrofen, nitrothal-isopropyl, norflurazon, o-phenylphenol, oxadiazon, oxyfluorfen, parathion (-Et), parathion-Me, pendimethalin, permethrin (2p.), perthan, phentoat, phorate, phosalone, phosmet, piperonyl butoxide, pirimiphos-Me, procymidone, profluralin, propanil, propazin, propetamphos, propham, prothiophos, pyridafenthion, pyrifenox (2p.), quinoxiphen, quintozone, spiromesifen, tebuconazol, tefluthrin, terbacil, terbufos, tetradifon, tetramethryn, tetrasul, tolclophos Me, transfluthrin, triadimefon, triallat, triazophos, trichloronate, trifluralin, vinclozolin</p>	
37. Vegetable oils and fats	<p>Determination of 15 plasticizers: butylbenzyl phthalate BBP, dibutyl adipate DBA, dibutyl phthalate DBP, diethyl adipate DEA, diethyl phthalate DEP, diethylhexyl adipate DEHA, diethylhexyl phthalate DEHP, diisobutyl adipate DIBA, diisobutyl phthalate DIBP, diisodecyl phthalate DIDP, diisononyl phthalate DINP, dimethyl phthalate DMP, dioctyl phthalate DOP, tributyl acetyl citrate TBAC, tributyl phosphate TBP</p>	In-house method E_XM099/ GC-MS/MS
38. Tobacco leaves, wet or dried	<p>Residue-determination of 86 agricultural drugs: 2,4,5-T, 2,4-D, 3-OH carbofuran, acephate, acetamiprid, aldicarb, aldicarb sulfone, aldicarb sulfoxide, azoxystrobin, benalaxyl, carbaryl, carbendazim, carbofuran, chlorantraniliprole, chlorfenvinphos, clothianidine, cymoxanil, cyprodinil, demetonSMe, demetonSMesulfone, desmethyl-formamido-pirimicarb, desmethyl-pirimicarb, diazinon, dibrom (naled), dicamba, dichlorvos, diflubenzuron, dimefox, dimethoate, dimethomorph e+z, emamectin, ethoprophos, fenamiphos, fensulfothion, fenthion, fenthion oxon, fenthion sulfone, fenthion sulfoxide, fluazifop-P-Bu, flubendiamide, fludioxonil, fluopicolide, imidacloprid, indoxacarb, malaaxon, malathion, metaflumizone, metalaxyl + metalaxyl-M, methamidophos, methiocarb, methiocarb sulfone, methiocarb sulfoxide, methomyl, methoprene, mevinphos (2p), monocrotophos., napropamide, omethoate, oxadixyl, oxamyl, oxydemeton-Me, paraoxon Et, paraoxon-Me, pebulate, penconazol, phosalone, phosmamidon, phoxim, piperonyl butoxide, pirimicarb, pirimiphos-Me, profenofos, propoxur, pymetrozin, pyrethrin I, pyrethrin II, spirotetramat, tetrachlorvinphos, thiacloprid, thiamethoxam, thiophanate-Me, triadimefon, triadimenol, trichlorfon, triflumuron, vamidothion</p>	In-house method E_XM113/ LC-MS/MS based on SANTE/11312/2021 and EURL-FV M4 method
39. Tobacco leaves, wet or dried	<p>Residue-determination of 88 agricultural drugs: acibenzolar-S-Me., alachlor, aldrin, azinphos-Et, azinphos-Me, benalaxyl, benfluralin, bifenthrin, bromophos-Me, butralin, carbaryl, chinomethionate, chlordane cis, chlordane trans, chlorothalonil, chlorpyrifos (-Et), chlorpyrifos-Me, chlorthal-dimethyl, clomazon, cyfluthrin (4isom),</p>	In house E_XM114/ GC-MS/MS, based on SANTE/11312/2021 and EURL-FV M4 method



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	cyfluthrin-β, cyhalothrin-λ, cypermethrin ( 4isom), cypermethrin-α, DDD-op', DDD-pp', DDE-pp', DDT-op, DDT-pp', deltamethrin, diazinon, dibromochloropropane, dichlorvos, dicloran, dieldrin, dimethoate, diphenamid, disulfoton, endosulfan-α, endosulfan-β, endosulfan sulfate, endrin,, etridiazol, famoxadone, fenamidon, fenchlorphos, fenitrothion, fenthion, fenthion sulfone, fenthion sulfoxide, fenvalerate, flucythrinate, flumetralin, fonofos, formothion, HCH-α, HCH-β, HCH-γ, HCH-δ, heptachlor, heptachlor epoxide endo, heptachlor epoxide exo, hexachlorobenzene (HCB), iprodione, isopropalin, malaoxon, malathion, methidathion, methoprene, methoxychlor, metolachlor, mevinphos, mirex, nitrofen, parathion (-Et), parathion-Me, pebulate, pendimethalin, permethrin, phorate, phosalone, piperonyl butoxide, pirimiphos-Me, tefluthrin, terbufos, thionazin, tralomethrin, trifluralin	
40. Olive oil, pomace oil and edible plant oils	1. Determination of free fatty acids - Cold method (acidity)	COI/T.20/Doc. No 34
	2. Determination of peroxide value	COI/T.20/Doc. No 35
	3. UV-Spectrophotometric analysis (coefficients K232, K270, ΔK)	COI/T.19/Doc. No 19
	4. Determination of sterols	In house method E_XM079 based on COI/T.20/ Doc. No 26
41. Ceramic articles intended to come into contact with foodstuffs	1. Determination of Specific migration of Lead (Pb)	In house method E_XM060 based on the Article 25 of Food and Beverage Code
	2. Determination of Specific migration of Cadmium (Cd)	In house method E_XM060 based on the Article 25 of Food and Beverage Code
42. Paper - Cardboard	1. Determination of Lead (Pb) content	In house method E_XM051 based on the Article 24 of Food and Beverage Code
	2. Determination of Cadmium (Cd) content	In house method E_XM051 based on the Article 24 of Food and Beverage Code
	3. Determination of Mercury (Hg) content	In house method E_XM085 based on the Article 24 of Food and Beverage Code
	4. Determination of Pentachlorophenol (PCP)	In house method E_XM084 based on 15320: 2011
	5. Determination of extractable metals Lead (Pb) and Cadmium (Cd)	In house method E_XM084 based on BfR XXXVI
43. Packaging materials intended to come into contact with foodstuffs	1. Overall migration into aqueous food simulants (A, B, C) and in food simulant D1 (50% Ethanol) by total immersion.	EN 1186-3:2022
	2. Overall migration into aqueous food simulants (A, B, C) and in food simulant D1 (50% Ethanol) by cell.	EN 1186-3/2022
	3. Overall migration into aqueous food simulants (A, B, C) and in food simulant D1 (50% Ethanol) by article filling.	EN 1186-3/2022
	4. Overall migration, into simulant D2 (vegetable oil) by total immersion.	EN 1186-2:2022



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	5. Overall migration, into simulant D2 (vegetable oil) by cell.	EN 1186-2 /2022
	6. Overall migration, into simulant D2 (vegetable oil) by article filling.	EN 1186-2 /2022
	7. Test methods for 'substitute tests' for overall migration from plastic materials and articles intended to come into contact with fatty foodstuffs using simulant D2 (ethanol 95% and Isooctane) by total immersion, cell and article filling.	EN 1186-3/2022
	8. Overall migration to simulant E (poly (2,6-diphenyl-p-phenylene oxide - Tenax®))	EN 1186-13:2002 & EN 14338:2003
	9. Determination of specific migration of Lead (Pb), and Cadmium (Cd) in simulant B (3% Acetic acid)	In house method E_XM086 based on EN1186:2022
	10. Determination of specific migration of Phthalates in simulant D2 (Vegetable Oil): DBP: Dibutyl Phthalate BBP: Benzyl-butyl Phthalate DEHP: Bis (2-ethylhexyl) phthalate DEHA: Dicyclohexyl Phthalate	In house method E_XM089 based on EN1186:2022
	11. Semi-quantitative determination of specific migration of semi-volatile substances in simulant 95% Ethanol.	In house method E_XM090 based on EN1186:2022
44. Solid industrial waste and by-products	A12 Test – Flammability (contact with water) / UN Test N.5	In house method E_XM026 based on Council Regulation (EC) No 440/2008 as modified and as in force
45. Waste waters (Processed and non-processed)	1. Determination of Total Suspended Solids (TSS)	In house method E_XM013 based on APHA 2540 D
	2. Determination of Chemical Oxygen Demand (COD)	In house method E_XM018 based on APHA 5220 D
	3. Determination of total Nitrogen (N)	In house method E_XM094 based on: Digestion - Analogous to DIN EN ISO 11905-1 H36 & Determination - Analogous to ISO 7890- 1, DIN 38405 – D9
	4. Determination of total Phosphorus (P)	In house method E_XM095 based on: Analogous to EPA 365.2+3, APHA 4500-P E & DIN EN ISO 6878 – D11
<b>Microbiological Tests</b>		
1. Foodstuffs	1. Enumeration of beta –glucuronidase – positive <i>Escherichia coli</i>	ISO 16649-2:2001
	2. Enumeration of coagulase – positive staphylococci ( <i>Staphylococcus aureus</i> and other species)	ISO 6888-1:2021/Amd 1:2023
	3. Enumeration of Enterobacteriaceae. Colony count technique	ISO 21528-2:2017



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
	4. Enumeration of the total aerobic microorganisms at 30°C	ISO 4833-1:2013/Amd 1:2022 ISO 4833-2:2013/Amd 1:2022
	5. Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017
	6. Detection of <i>Listeria</i> spp.	ISO 11290-1:2017
2. Foodstuffs with $a_w \leq 0,95$	Enumeration of yeasts and moulds	ISO 21527-2:2008
3. Foodstuffs with $a_w > 0,95$	Enumeration of yeasts and moulds	ISO 21527-1:2008
4. Food and animal feed	Detection of <i>Salmonella</i> spp.	ISO 6579-1: 2017/ Amd 1:2020
5. Canned food and similar products, preserved in glass and paper container.	Stability testing	NF V 08 – 408: 1997
6. Foodstuffs, canned food and similar products Ready to eat food	1. Enumeration of total coliform bacteria	ISO 4832:2006
	2. Enumeration of <i>Clostridium perfringens</i>	ISO 7937:2004
	3. Enumeration of <i>Clostridia</i> sulfate	ISO 15213-1:2023
	4. Enumeration of <i>Bacillus cereus</i>	ISO 7932:2004/ Amd 1:2020
7. Potable water	1. Enumeration of the total aerobic microorganisms at $22 \pm 2$ °C and $36 \pm 2$ °C	ISO 6222:1999
	2. Detection and enumeration of <i>Escherichia coli</i> and total coliform bacteria	ISO 9308-1:2014/Amd.1:2016
	3. Detection and enumeration of <i>Pseudomonas aeruginosa</i>	ISO 16266:2006
	4. Detection and enumeration of intestinal enterococci	ISO 7899-2:2000
8. Faecal materials and samples of the primary production stage	Detection of <i>Salmonella</i> spp.	ISO 6579-1: 2017/ Amd 1:2020
9. Environmental samples – surface samples (swab)	1. Detection of <i>Salmonella</i> spp.	ISO 6579-1: 2017/ Amd 1:2020
	2. Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017
	3. Detection of <i>Listeria</i> spp.	ISO 11290-1:2017
<b>Biological Tests</b>		
1. Soya: Seeds, foods (seeds, flour, processed), foods with high fat content (lecithin, unprocessed oils), feeds	Screening method for genetically modified organisms (GMOs), by the detection of CaMV 35S promoter, nopaline synthase terminator (NOS), CTP2-CP4EPS construct, PAT gene and BAR gene.	In-house method E_DNA_ML108/ Real Time PCR based on a) ISO 21569:2005/ Amd1:2013



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
<p>2. Maize:</p> <p>Seeds, foods (seeds, flour, processed), feeds</p>		<p>b) ISO 21570:2005/Amd 1:2013 and</p> <p>c) Grohmann L. et al, J Agric Foods Chem 2009, 57:8913-8920</p> <p>d) Verginelli D. et al, JSci Foods Agric (2020); 100: 2121-9</p> <p>DNA extraction with CTAB method (ISO 21571:2005/Amd 1:2013). DNA extraction from Foods with high fat content: hexane method (Wurz A. et al, Dtsch. Lebensm. Rundsch. 1998, 94 pp. 159–161).</p>
<p>3. Cotton:</p> <p>Seeds, feeds</p>	<p>Screening method for genetically modified organisms (GMOs), by the detection of CaMV 35S promoter, nopaline synthase terminator (NOS), CTP2-CP4EPS construct, PAT gene and BAR gene.</p>	<p>In-house method E_DNA_ML109/ Real Time PCR based on:</p> <p>a) ISO 21569:2005/Amd1:2013 and</p> <p>b) EUR 24526 EN</p> <p>c) Grohmann L. et al, J Agric Foods Chem 2009, 57:8913-8920</p> <p>d) Verginelli D. et al, JSci Foods Agric (2020); 100: 2121-9</p> <p>DNA extraction with CTAB method (ISO 21571:2005/Amd 1:2013)</p>
<p>4. Rice:</p> <p>Foods (rice, flour, processed), feeds</p>	<p>Screening method for genetically modified organisms (GMOs), by the detection of CaMV 35S promoter</p>	<p>In-house method E_DNA_ML110/ Real-Time PCR based on:</p> <p>a) ISO 21570:2005/Amd 1:2013</p> <p>b) CRLVL05/04VP Community Reference Laboratory for GM Foods and Feedss (09/06/06) and</p> <p>DNA extraction with CTAB method (ISO 21571:2005/Amd 1:2013)</p>
<p>5. Maize:</p> <p>Seeds, foods (seeds, flour, processed), feeds</p>	<p>Quantification of CaMV 35S promoter in maize</p>	<p>In-house method E_DNA_ML111/ Real-Time PCR based on ISO 21570:2005/Amd 1:2013.</p> <p>DNA extraction with CTAB method (ISO 21571:2005/Amd 1:2013)</p>
<p>6. Soya:</p> <p>Seeds, foods (seeds, flour, processed), foods with high fat content</p>	<p>Quantification of genetically modified Roundup Ready Soya (GTS 40-3-2)</p>	<p>In-house method E_DNA_ML112/ Real-Time PCR based on ISO 21570:2005/Amd 1:2013.</p>



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
(lecithin, unprocessed oils), feeds		DNA extraction with CTAB method (ISO 21571:2005/Amd 1:2013). DNA extraction from Foods with high fat content: hexane method (Wurz A. et al, Dtsch. Lebensm. Rundsch. 1998, 94 pp. 159–161)
7. Feeds and raw materials for feeds	Detection of ruminant DNA	In-house method E_DNA_ML104/ Real-Time PCR based on EURL-AP Standard Operating Procedures
8. Meat and meat products, feeds	Detection of Horse DNA	In-house method E_DNA_ML103/ Real-Time PCR based on Laube I. et al, Int J Foods Sci Technol (2007);42:9-17 and Jonker K.M. et al, Food Addit Contam (2008);25(5): 527-533
9. Meat and meat products, feeds	Detection of Pork DNA	In-house method E_DNA_ML105/ Real-Time PCR based on Laube I. et al, Int J Foods Sci Technol (2007);42:9-17 and Koppel R. et al, Eur Food Res Technol (2008) 227:1199-1203
10. Meat and meat products, feeds	Detection of Chicken DNA	In-house method E_DNA_ML106/ Real-Time PCR based on Laube I. et al, Int J Foods Sci Technol (2007);42:9-17 and Jonker K.M. et al, Food Addit Contam (2008);25(5): 527-533
11. White cheese (feta)	Semi-quantitative determination of cow milk by Real-Time PCR	In-house method E_DNA_ML107/ Real-Time PCR
<b>Immunochemical Tests</b>		
1. Foods	1. Quantification of gluten	In house method E_DNA_ML101 based on: 1. ELOT EN 15633.01: 2019. 2. Enzyme immunoassay (Ridascreen gliadin, R-Biopharm, AOAC RI 120601)
2. Foods	2. Detection and quantification of hazelnut	In house method E_DNA_ML102 based on: ELOT EN 15633.01:2019, ELOT EN 15633.02:2013



Materials / products tested	Types of test / Properties to be measured	Applied Methods / Techniques to be used
<b>Sensory tests</b>		
1. Packaging Materials	Methods for assessing modifications to the flavor of foodstuffs due to packaging materials	ISO 13302:2003
2. Foodstuffs	Sensory Analysis – Assessment (determination and verification) of the shelf life of foodstuffs	ISO 16779:2015
3. Olive Oil	Organoleptic assessment of virgin olive oil	COI/T.20/Doc. No 15/Rev. 10 2018

Site of assessment: **Laboratory permanent premises, 10 Nikita Str., Piraeus, Greece.**

Approved signatories: **I. Masavetas, M. Vamvaka, Ath. Alexandropoulou, Ap. Enotiadis, P. Poulimenakos, S. Megremi, I. Vasilakopoulou, A. Haralabakopoulos, L. Fountas, S. Anagnostou**

This scope of Accreditation replaces the previous one, dated 11.01.2024.

The Accreditation Certificate No. **195-9**, according to ELOT EN ISO/IEC 17025:2017, is valid until 08.03.2025.

Athens, 2<sup>nd</sup> of May 2024

