

INTERNAL TECHNICAL ANNEX
AGRIFOOD DEPARTMENT
PHYTOCONTROL ANALYTICS France

Version 39 – 19th October 2020

References :

Cofrac Technical Annex No. **1-1904 rev. 14**

Cofrac Technical Annex No. **1-6066 rev. 11**

PHYTOCONTROL LABORATORY (1)

Georges Besse II Science Park
180, rue Philippe Maupas
30035 NIMES,
under accreditation number N° 1-1904

PHYTOCONTROL LABORATORY (2)

Georges Besse Science Park
70 Graham Bell Lane
30035 NIMES,
under the accreditation number N° 1-6066

BIOTECHNOLOGY UNIT (Phytocontrol 1)

ANALYTICAL CHEMICAL UNIT (Phytocontrol 1)

MICROBIOLOGY UNIT (Phytocontrol 2)

Pesticide residues

Scope of accreditation N°1-1904

FLEX3 Scope

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feed	Pesticide residues	Extraction : Solid-Cold Liquid Hydrolysis Purification: SPE Dispersive SPE Analysis : LC/MS-MS, GC/MS-MS, GC-MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Phytocontrol Analysis Laboratory

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Original products plant and animal: Water-rich products, Oil-rich products, Acidic and water-rich products, Sugar-rich products and low water content, Low water and fat products, spices, aromatic and medicinal plants, Alcoholic drinks, Fruit and vegetable juices	Diquat/Paraquat	Preparation/Extraction : Solid / liquid cold extraction Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/20
Original non-fat products vegetable: Water-rich products Products rich in starch, protein Acidic products Products rich in pigments	Determination of the content of chlormequat, mepiquat	Extraction: by solvent Analysis: LC-MS-MS-MS	Internal method MOC3/21
Products of plant origin: Water-rich products Products rich in starch, protein Acidic products Products rich in pigments	Determination of dithiocarbamate residues	Preparation/Extraction : Hydrolysis Analysis : Determination of residual CS ₂ by GC-MS	Internal method MOC3/01
Water-rich products Acidic and water-rich products Sugar-rich products and low water content Low water and fat products	Determination of dithiocarbamate residues by family: - Dimethyldithiocarbamates - Ethylenebisdithiocarbamates - Propylenebisdithiocarbamates	Extraction Solid/cold liquid Purification : Dispersive SPE Device : LC-MS/MS	Internal method MOC3/401

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products Products rich in starch, protein Acidic products Products rich in pigments	<u>Multi-residue dosing of pesticides</u> Organophosphates: Chlorpyrifos ethyl, Isofenphos methyl, Malathion, Parathion methyl, Phosalone, Pirimiphos methyl, Tolclophos methyl, Chlorfenvinphos, chlorpyrifos-methyl, dichlorfenthion, ethoprophos, fenclorfos, fonofos Organochlorines: Chlorpropham, Procymidone, Propyzamide, Vinclozoline, Myclobutanil, Triadimefon, Triadimenol, 2-4'DDE, 2-4'DDD, 4-4'DDE, 4-4'DDT, chlorobenzylate, fenarimol, fenhexamid, hcb, hch alpha, hch beta, hch delta, mirex, oxadiazon, pentachloroanisole, tebufenpyrad Pyrethroids: Bifenthrin, Cyhalothrin Nitrogenous / miscellaneous: Bromopropylate, Cyprodinil, Diphenylamine, Pirimicarb, Propyconazole, Pyrimethanil, Fludioxonil, O-phenylphenol, Oxadixyl, Benalaxyl, bitertanol, carfentrazone-ethyl, chorthal-dimethyl, cyproconazole, dichlofop-methyl, difenoconazole, flusilazole, mepanipyrim, mepronil, penconazole, perthane, proquinazid, pyriproxyfen, tebuconazole Polychlorinated biphenyls (PCBs): PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180.	Extraction : Solid/cold liquid Purification : SPE Analysis : GC/MS-MS	Internal method MOC3/25

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
<p>Products of plant origin: Oil-rich products</p> <p>Products of animal origin: Dairy products Meat products Fat products Fishery products Egg products</p>	<p><u>Multi-residue dosing of pesticides</u></p> <p><u>Organophosphates:</u> Chlorfenvinphos, Chlorpyrifos ethyl, Chlorpyrifos methyl, Coumaphos Fenitrothion, Malathion, Methidathion Parathion methyl, Parathion ethyl, Phosalone, Pirimiphos methyl Ethion, Isofenphos methyl Pyridafenthion, Tolclophos methyl</p> <p><u>Organochlorines:</u> Aclonifen, Chlorpropham, 2,4-DDD 2,4-DDE, 4,4'-DDE, 4,4' DDT, Dieldrin Endosulfan alpha, Endosulfan beta Endosulfan sulphate, HCB, Oxyfluorfen Procymidone, Propyzamide Vinchlozoline, Myclobutanil Carfentrazone ethyl, Cyproconazole Diclofop methyl, Difenconazole Fenarimol, Penconazole, Tebuconazole Tebufenpyrad</p> <p><u>Pyrethroids:</u> Bifenthrin, Cyfluthrin, Cyhalothrin Cypermethrin, Deltamethrin Fluvalinate, Tefluthrin, Tetramethrin</p> <p><u>Organo Nitrogen / Miscellaneous:</u> Bromopropylate, Propyconazole Fludioxonil, Benalaxyl, Cyprodinil Diflufenican, Flusilazole, Mepronil Metalaxyl, Pirimicarb, Proquinazid, Prosulfocarb, Pyriproxifen</p>	<p>Extraction : Solid/cold liquid</p> <p>Purification : Dispersive SPE</p> <p>Analysis: GC-MS/MS</p>	Internal method MOC3/26

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products Products rich in starch, protein Acidic products Products rich in pigments Low water and fat products	Etephon	Extraction : Solid/cold liquid Analysis: LC-MS-MS-MS	Internal method MOC3/27
Products of plant origin: Water-rich products, Acidic and water-rich products, Low water and fat products Sugar-rich products and low water content Alcoholic drinks, Fruit and vegetable juices, Infant nutrition	Determination of the fentin content (expressed as triphenyltin cation), fenbutatin oxide, cyhexatin and azocyclotin.	Extraction : by solvent Purification : Liquid/solid (SPE dispersive) Analysis : LC-MS/MS	Internal method MOC3/31
Products of plant origin: Water-rich products Products rich in starch, protein Acidic products	Determination of the content of Maleic Hydrazide	Extraction : Solid/cold liquid Analysis : LC-MS/MS	Internal method MOC3/44
Products of plant origin: Water-rich products, Acidic and water-rich products, Sugar-rich products and low water content, Products low in water and fat, Alcoholic drinks, Fruit and vegetable juices, Baby food	Determination of the content of ethylene thiourea (ETU) and propylene thiourea (PTU)	Extraction : Solid/cold liquid Purification : Liquid/liquid Analysis : LC-MS-MS-MS	Internal method MOC3/45

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products, Acidic and water-rich products, Low water and fat products Sugar-rich products and low water content Alcoholic drinks, Fruit and vegetable juices, Sodas	Determination of the content of Acetochlor, Alachlor, Benfluralin, Clomazone, Diflufenican, Ethofumesate, Etofenprox, Fenpropathrin, Fenvalerate, Fluopicolide, Hexazinone, Metolachlor, Permethrine, Pyridaben, Tefluthrin, Terbufos, Terbuthylazine, Triallate, Zoxamide.	Extraction: by solvent Purification : Liquid/solid (SPE dispersive) Analysis: GC-MS/MS	Internal method MOC3/55
Products of plant origin: Infant nutrition	<u>Multi-residue dosing of pesticides</u> Terbufos, Fipronil, Fipronil desulfinyl, HCB, Haloxyfop 2ethylhexyl, Haloxyfop methyl, Terbufos sulfone, Heptachlor, Heptachlor epoxide cis, Heptachlor epoxide trans Endrin, Disulfoton, Dieldrin, Aldrin, Demeton S Methyl, Nitrofen	Extraction : Solid/cold liquid Purification : Liquid/Solid (SPE) Analysis: GC-MS/MS	Internal method MOC3/56

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Infant nutrition	<u>Multi-residue dosing of pesticides</u> Haloxypop (free acid), Terbufos sulfoxide, Ethoprophos, Fensulfothion, Fensulfothion oxon, Fensulfothion oxon sulfone, Fensulfothion sulfone, Disulfoton sulfone, Disulfoton sulfoxide, Cadusafos	Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/57
Non-fat products of vegetable origin: Water-rich products, Acidic and water-rich products, Alcoholic drinks, Oil-rich products (oilseeds) Low water and fat products Miscellaneous products: teas Animal feeds : Fodder, oilcake Compound feeds	Determination of the content of Glyphosate and AMPA	Extraction : Solid/cold liquid Analysis : LC-MS/MS	Internal method MOC3/80
Products of plant origin: Water-rich products Acidic and water-rich products Alcoholic beverages Fruit and vegetable juices	Determination of the content of Foseethyl-Aluminium and Phosphonic Acid	Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/89
Products of plant origin: Water-rich products Acidic and water-rich products Sugar-rich and water-poor products Alcoholic beverages Fruit and vegetable juices	Determination of Perchlorate and Chlorate content	Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/120
Non-fat products of vegetable origin: Water-rich products Acidic and water-rich products Sugar-rich and low-water products Low-water and low-fat products Alcoholic beverages Fruit and vegetable juices	Determination of the polar residue content: AMPA Elephon Foseethyl-Aluminium Glufosinate Glufosinate-N-acetyl Glyphosate Maleic hydrazide Phosphonic acid Chlorate Perchlorates	Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/424

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products Acidic and water-rich products	<u>Multi-residue dosing of pesticides</u> <u>Phenoxyacetic herbicides :</u> 2.4.5 T, 2.4 D, 2.4 DB, DNOC, MCPA <u>Phenoxypropionic herbicides:</u> Dichloprop P, Diclofop acid Fluazifop (free acid), Haloxyfop P Mecoprop P, Quizalofop <u>Ureas :</u> Amidosulfuron, Diflufenzuron Hexaflumuron, Teflubenzuron Thifensulfuron methyl, Triflumuron <u>Nitriles:</u> Bromoxynil, Ioxynil, Dinitrophenols: Dinoseb, dinoterb <u>Pyridines :</u> Triclopyr, Fluroxypyr <u>Miscellaneous:</u> Bentazone, Dicamba, Dithianon MCPB, Orizalin	Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/90

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
<p>Products of plant origin:</p> <p>Water-rich products</p> <p>Acidic and water-rich products</p> <p>Sugar-rich products and low water content</p> <p>Fruit and vegetable juices</p> <p>Sodas</p> <p>Alcoholic beverages</p> <p>Low water and fat products</p>	<p><u>Multi-residue dosing of pesticides</u></p> <p><u>Benzimidazoles:</u> Thiabendazole</p> <p><u>Ureas :</u> Chlorotoluron, Diuron, Lufenuron Novaluron, Pencycuron</p> <p><u>Triazoles :</u> Metconazole, Prothioconazole desthio, Etoxazole</p> <p><u>Triazines :</u> Simazine, Terbumeton</p> <p><u>Carbamates:</u> Benthiavali carb isopropyl, Methomyl Oxamyl, Propoxur</p> <p><u>Organophosphates:</u> Dimethoate, Omethoate</p> <p><u>Miscellaneous:</u> 1-naphthylacetamide, Ametoctradin Bifenazate, Carbetamide Carboxin, Chlorantraniliprole, Chloridazon, Clofentezine, Clothianidin, Cymoxanil, Dodine, Emamectin benzoate B1a, Etoxazole, Imidachloprid, Kresoxim-methyl, Mandipropamide Metamitron, Spinosad A + D Spiromesifen, Spirotetramate, Spirotetramate enol, Spirotetramate enol glucoside, Spirotetramate keto hydroxy, Spirotetramate mono hydroxy TCMTB, Thiachlopride Thiametoxam, Tricyclazole</p>	<p>Extraction : Solid/cold liquid</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/97</p>

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
<p>Products of plant origin:</p> <p>Water-rich products</p> <p>Products rich in starch, protein</p> <p>Acidic products</p> <p>Products rich in pigments</p>	<p><u>Multi-residue dosing of pesticides</u></p> <p><u>Benzimidazoles:</u> Carbendazime, Thiophanate-methyl</p> <p><u>Strobilurins:</u> Azoxystrobin, trifloxystrobin, Fluoxastrobin, picoxystrobin, pyraclostrobin</p> <p><u>Ureas :</u> Isoproturon, linuron, metoxuron, triflusaluron- methyl, Bensulfuron-methyl, buturon, cycluron, flufenoxuron, fluométuron, methabenzthiazuron, monolinuron, monuron, monuron, neburon</p> <p><u>Triazoles :</u> Epoxyconazole, fenbuconazole, fetraconazole, Azaconazole, bromuconazole, paclobutrazole, triticonazole,</p> <p><u>Triazines:</u> Cyanazine</p> <p><u>Carbamates:</u> Iprovalicarb, thiodicarb</p> <p><u>Pyridilmethyamines:</u> Acetamiprid</p> <p><u>Miscellaneous:</u> Lenacil, metoxyfenoside, phenmedipham, rotenone, tebufenozide, Boscalid, butafenacil, cloquintet, cyazofamide, desmedipham, desmetryn, dimethanamide, dimethomorph, fenamidone, fenpyroximate, flurtamone, hexythiazox, indoxacarb, isoporthiolane, isoxathion, metrafenone, phoxim, picolinafen, propaquizafop, pyraflufen-ethyl, spirodiclofen, spiromamine, triflumizole, warfarin</p>	<p>Preparation/Extraction: Solid/cold liquid</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/35</p>

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Hive products: Honey Royal jelly Pollen Bees	<u>Multi-residue dosing of pesticides:</u> 2.4 DDD, 2.4 DDE, 4.4 DDE, 4,4 DDT, Alachlor, Bromopropylate, Chlordane (cis+trans), Chlorobenzilate, Chlorpyrifos ethyl, Chlorpyrifos methyl, Cyhalothrine, Cymiazole, Cypermethrine, Deltamethrine, Dichlobenil, Dieldrin, Difenoconazole, Endosulfan alpha, Endosulfan beta, Endrin, Ethion, Fenitrothion, Tau-fluvalinate, HCH alpha, HCH beta, Malathion, Metolachlor, Oxadiazon, Oxyfluorfen, Parathion methyl, Permethrin, Pirimiphos methyl, Procymidone, Profenofos, Prothiofos, Quinalfos, Tebufenpyrad, Tetradifon, Trifluralin, Vinchlozolin.	Extraction : Solid/cold liquid Purification : Dispersive SPE Analysis : GC-MS/MS	Internal method MOC3/76
Products of animal origin: Meat products Egg and derived products	Fipronil, Fipronil sulfone	Preparation / Extraction : Solid / cold liquid Purification : SPE Analysis : GC-MS/MS	Internal method MOC3/183
Products of animal origin: Meat products Egg and derived products.	Amitraz (including metabolites containing the 2,4-dimethylaniline fraction expressed as amitraz)	Preparation / Extraction : Hydrolysis Solid / cold liquid Purification : Dispersive SPE Analysis: LC-MS/MS	Internal method MOC3/184
Original products vegetable: Water-rich products Acidic and water-rich products Products rich in sugar and low water content Poor products in water and fat Alcoholic beverages Fruit juices and	Multi-residue dosing of Pesticides: 6-Benzyladenine, Acephate, Acetamipride, Ametoctradine, Amidosulfuron, Azaconazole, Azimsulfuron, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Beflubutamide, Bensulfuronmethyl, Benthiavalicarbisopropyl, Bixafen, Boscalide, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Buturon, Cadusafos, Carbendazim, Carbetamide, Carboxin, Chlorantraniliprole, Chloridazon, Chlorotoluron, Chloroxuron, Chlorsulfuron, Chromafenozide, Cinidonethyl, Cinosulfuron, Clethodim-sulfoxide, Clofentezine, Clothianidin, Cyanazine,	Preparation/ Extraction: Solid / cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/407

Vegetables Sodas	Cyantraniliprole, Cyazofamide, Cycluron, Cyflufenamid, Cymoxanil, Cyprosulfamide, Demeton-S, Demeton-S-methylsulfone, Demeton-S-methylsulfoxide, Desmetryn, Difenamide, Diflubenzuron, Dimethenamid-P, Dimethoate, Dimethomorphe, Dinoseb, Dinoterb, Disulfoton-sulfone, Disulfoton-sulfoxide, Diuron, DMST, Dodemorphe, Dodine, Eamectine-benzoate B1a, Eamectine-benzoate B1b, Epoxiconazole, Ethametsulfuron-methyl, Ethidimuron, Ethiprole, Ethirimol, Etoxazole, Fenamidone, Fenamiphos sulfone, Fenamiphossulfoxide, Fenbuconazole, Fenchlorphos oxon, Fenoxaprop-ethyl, Fenoxycarbe, Fenpropidine, Fenpyramazine, Fenpyroximate, Fensulfothion, Fensulfothionoxon, Fensulfothion-oxonsulfone, Fensulfothionsulfone, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenuron, Florasulam, Fluazinam, Flufenoxuron, Fluometuron, Fluopyram, Fluoxastrobin, Flupyradifurone, Flupyrsulfuron methyl, Fluquinconazole, Flurtamone, Fluxapyroxad, Foramsulfuron, Forchlorfenuron, Fosthiazate, Fuberidazole, Furametpyr, Halauxifen methyl, Halfenprox, Halosulfuronmethyl, Hexythiazox, Hydramethylnon, Imazalil, Imazamox, Imazaquin, Imazosulfuron, Imidachlopride, Indoxacarb, Iodosulfuronmethyl, Ioxynil, Iprovalicarb, Isazofos, Isocarbophos, Isoprocab, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenurone, Mandipropamide, MCPA, Mecarbam, Mesosulfuronmethyl, Metaflumizone, Metamitron, Metconazole		
Original products vegetable: Water-rich products Acidic and water-rich products Products rich in sugar and low water content Poor products in water and fat Alcoholic beverages Fruit juices and	Methabenzthiazuron, Methomyl, Methoxyfenozide, Metobromuron, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metsulfuronmethyl, Mevinphos, Monalide, Monocrotophos, Monolinuron, Monuron, NAD(1-naphthyl acetamide), Napropamide, Neburon, Nicosulfuron, Norflurazon, Novaluron, Ofurace, Omethoate, Orthosulfamuron, Oxamyl, Oxasulfuron, Paclobutrazol, Paraoxon-ethyl, Pencycuron, Penflufen, Penoxsulame, Penthiopyrad, Phenmedipham, Phorate sulfone, Phorate-oxon, Phosphamidon, Phoxim,	Preparation/ Extraction: Solid / cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/407

Phytocontrol Analysis Laboratory

Vegetables Sodas	Picolinafen, Picoxystrobin, Pinoxadene, Pirimicarbdesmethyl, Promecarb, Prometon, Propamocarb, Propaphos, Propaphos, Propaquizafop, Propoxur, Prothioconazoledesthio, Pyraclofos, Pyraclostrobin, Pyraflufenethyl, Pyrimidifen, Pyriofenone, Pyroquilon, Pyroxsulam, Rimsulfuron, Rotenone, Sedaxane, Silthiofam, Simazine, Spinetoram A, Spinetoram B, Spinosad A, Spinosad D, Spirodiclofen, Spiromesifen, Spirotetramate, Spirotetramate-enol, Spirotetramat-enolglucoside, Spirotetramat-keto-hydroxy, Spirotetramat-monohydroxy, Spiroxamine, Sulfosulfuron, TCMTB, Tebufenozide, Tebutam, Tebuthiuron, Teflubenzuron, Tepraloxydim, Terbumeton, Desethyl terbumeton, Tetraconazole, Thiabendazole, Thiachloprid, thiamethoxam, Thiencarbazon methyl, Thifensulfuron-methyl, Thiobencarb, Thiodicarb, Thionazin, Thiophanatemethyl, Tricyclazole, Trifloxystrobin, Triflumuron, Triflusulfuron-methyl, Triticonazole, Tritosulfuron, Vamidothion, Warfarin		
Aromatic and medicinal plants	Acetamiprid, Ametoctradine Azoxystrobin, Benthiavalicarb-isopropyl, Boscalid, Cyflufenamid Difenamide, Enamectin-benzoate b1a, Fenamidone, Fenpyroximate, Imidachloprid, Iprovalicarb, Isoxathion Linuron, Metconazole, Methoxyfenozide Propaquizafop, Pyraclostrobin Spirodiclofen, Tebufenozide Tetraconazole, Trifloxystrobin Triflumuron	Preparation/ Extraction: Solid / cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/417
Spices	Acetamiprid, Dimethoate, Ethametsulfuron Imidachloprid, Isoxathion, Metrafenone Paclobutrazol, Pyraclostrobin, Thiachloprid	Preparation/ Extraction: Solid / cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/427

Scope FLEX3

General scope*

Chemical and biological products/ Bioactive products/ Physico-chemical analyses		Physico-chemical method: medicinal and aromatic plants
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Essential oils of Citrus	Pesticide residues	Extraction: Liquid / cold liquid Analysis : LC-HRMS

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Detailed scope

Chemical and biological products/ Bioactive products/ Physico-chemical analyses		Physico-chemical method: medicinal and aromatic plants	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Orange essential oils	Acephate, Ametryn, Atrazine-desethyl, Carboxin, Chloridazone, Cinosulfuron Clodinafop-propargyl, Coumaphos Demeton-S-methylsulfone, Desmetryn, Dichlorobenzamide, Dimethoate Diphenamid, Disulfoton-sulfoxid, Ditalimfos, Edifenphos, Ethametsulfuron-methyl Etrimfos, Fenamiphos sulfoxide, Fensulfothion, Fenthion-sulfon, Fenthion-sulfoxide, flurtamone, Fosthiazate Heptenophos, Imazamox, Iprobenfos, Isocarbophos Malaoxon, Metalaxyl, Norflurazon, Omethoate, Paraaxon, Phorate-oxon-sulfoxide, Phorate-sulfoxide Phosphamidon, Profenophos, Propachlor, Pyriofenone, Pyroxsulam, Quinmerac, Sulfotep, Sulfoxaflor Thiacloprid, Thifensulfuron-methyl, Thiodicarb, Vamidothion Zoxamide	Preparation/ Extraction : Liquid / cold liquid Analysis: LC-HRMS	Internal method MOC3/408
Essential oils of Bergamot and Lemon	Acephate, Aldicarb, Atrazine-desethyl Bispyribac, BTS 44595 Chlorfenvinphos (E-Z), Chloridazone Cinosulfuron, Dichlorobenzamide Dimethoate, Diphenamid Ditalimfos, Epoxiconazole Ethametsulfuron-methyl Ethidimuron, Ethiofencarb-sulfone Fensulfothion oxon, Fensulfothion Fenthion-sulfoxide, Fenuron Flutolanil, Isazophos, Isocarbophos Mecarbam, Napropamide Omethoate, Phosmet, Sulfoxaflor Thiacloprid, Thiamethoxam Tricyclazole, Zoxamide	Preparation/ Extraction : Liquid / cold liquid Analysis: LC-HRMS	Internal method MOC3/408

Phytocontrol Analysis Laboratory

Scope FLEX3

General scope*

Chemical and biological products / Cosmetics and hygiene products / Physico-chemical analyses		Physico-chemical method
SUBJECT	MEASURED OR SOUGHT-AFTER CHARACTERISTIC	METHOD PRINCIPLE
Finished cosmetic products and cosmetic raw materials	Determination of the content of chemical substances likely to cause allergies	Extraction : Cold liquid/liquid Cold solid/liquid Purification : SPE Analysis : GC-MS/MS LC-MS/MS

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Scope FLEX3

Detailed scope

Chemical and biological products / Cosmetics and hygiene products / Physico-chemical analyses Physico-chemical methods		Physico-chemical method	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Finished cosmetic products and raw materials for cosmetics without a fragrance base (washing gel, shampoo, soap, non-aerosol deodorant, hair dye, talcum powder, glycerine, glycol, moisturizing milk, liniment, cream, foundation, micellar water)	Determination of allergens : Citral, Geraniol, Cinnamal (Cinnamaldehyde), Hydroxycitronellal, Anise alcohol (4-methoxybenzyl alcohol), Atranol, Chloratranol	Extraction : Liquid/Cold Liquid Cold solid/liquid Purification : SPE Analysis : LC-MS/MS	Internal method MOC3/127
Finished cosmetic products and raw materials for cosmetics without a fragrance base (washing gel, shampoo, soap, non-aerosol deodorant, hair dye, talcum powder, glycerine, glycol, moisturizing milk, liniment, cream, foundation, micellar water)	Determination of allergens: Limonene, Benzyl alcohol, Methyl 2-octynoate, Citronellol, Anise alcohol (4-methoxybenzyl alcohol), Cinnamyl alcohol, Eugenol, Isoeugenol, Coumarin, α -Isomethyl ionone, Butylphenyl methylpropional (Lilial), Amyl cinnamal (α -mylcinnamaldéhyde), Hydroxyisohexyl 3-cyclohexene carboxaldehyde (Lyrall), Hexyl cinnamal (α -Hexylcinnamaldéhyde), Benzyl benzoate (Benzoate de benzyle), Amylcinnamyl alcohol (alpha-amylicinnamyl alcohol)	Extraction : Liquid/Cold Liquid Cold solid/liquid Purification : SPE Analyse : GC-MS/MS	Internal method MOC3/128

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feed	Organic Contaminant Residues	Solid/cold liquid extraction Liquid/cold liquid Hot solid/liquid Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotopic dilution, LC-GC-FID

**Flexible scope FLEX3: The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.*

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products, Acidic and water-rich products, Alcoholic drinks, Sugar-rich products and low water content, Water-poor products and fat, Fruit and vegetable juices, Sodas Products of animal origin: Dairy products Meat products Fishery products	Determination of DDAC and BAC content	Preparation/ Extraction : Solid / cold liquid Analysis: LC-MS-MS-MS	Internal method MOC3/145

Phytocontrol Analysis Laboratory

FIXED Scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Water-rich products (Water content $\geq 60\%$) Oil-rich products Acidic and water-rich products Sugar-rich products and low water content Miscellaneous products Alcoholic beverages Fruit and vegetable juices Sodas Products of animal origin: Dairy products	Determination of the content into nitrate, nitrite, chloride, bromide	Preparation / Extraction: Water Analysis : HPLC/CI (conductivity)	Internal method MOC3/02
Products of plant origin: Oil-rich products Low water and fat products (cereals and by-products, fruit and vegetable powders) Fruit and vegetable juices Alcoholic beverages Sugar-rich and low-water products Animal feeds : Flour of animal origin Compound feeds Raw materials of vegetable origin Products of animal origin: Dairy products including infant food Egg products Meat products Fishery products	Melamine	Extraction : Solvent Analysis : LC-MS/MS	Internal method MOC3/134

Fixed scope: The laboratory is recognised as competent to perform the tests in strict compliance with the methods mentioned in the scope of accreditation. Technical changes to the operating mode are not permitted.

Heavy metals

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

#Agri-food / Physico-chemical analyses		
Analysis of metallic and mineral trace elements and their chemical species in foodstuffs intended for human or animal consumption - LAB GTA 45		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Foodstuffs intended for human beings and animals (including infant food)	Metals Minerals	Mineralisation Wet process (microwave digestion in closed system) Wet process (acid digestion in open system) Analysis: ICP/MS LC-ICP/MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

#Agri-food / Physico-chemical analyses		Analysis of metallic and mineral trace elements and their chemical species in foodstuffs intended for human or animal consumption - LAB GTA 45	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
All foodstuffs of animal or vegetable origin including baby food	Arsenic, Lead, Cadmium, Mercury, Antimony, Barium, Boron, Chromium, Cobalt, Copper, Tin, Manganese, Molybdenum, Nickel, Palladium, Platinum, Iridium, Lithium, Rhodium, Ruthenium, Thallium, Vanadium	Mineralisation : Wet process (microwave digestion in closed system) Wet process (open system digestion) Analysis: ICP-MS	Internal method MOC3/85
Dairy products including infant nutrition	Aluminium	Mineralisation : Wet process (microwave digestion in closed system) Wet process (acid digestion in open system) Analysis: ICP-MS	Internal method MOC3/85
Alcoholic beverages	Iron	Mineralisation : Wet process (acid digestion in open system) Analysis: ICP-MS	Internal method MOC3/85
Cereals Fruits and vegetables Fruit and vegetable juices Medicinal plants Hive products Fishery products Dairy products including infant nutrition	Arsenic III, Arsenic V, monomethyl Arsenic, dimethyl Arsenic, Arsenocholine AsC, Arsenobetaine AsB	Mineralisation : Wet process (acid digestion in open system) Analysis: LC-ICP/MS	Internal method MOC3/94
Fishery products Fruits and vegetables Mushrooms Medicinal plants Food supplements Animal feedingstuffs	Mercury II HgII, Methylmercury MeHg	Mineralisation : Wet process (acid digestion in open system) Analysis: LC/ICP-MS	Internal method MOC3/144
Human food: Cereal products, Fat products, Egg products, Dairy products, Meat products, Fishery products, Fruits and vegetables,		Mineralisation :	

Phytocontrol Analysis Laboratory

<p>Sweetened and sweetened products, Non-alcoholic beverages, alcoholic beverages, spices and condiments Aromatic and medicinal plants, Dietary and special dietetic foods, Compound foods, Infant nutrition</p> <p>Animal feed: Raw materials, Complete or complementary compound feedingstuffs</p>	<p>Calcium, Magnesium, Phosphorus, Potassium</p>	<p>Wet process (open system digestion)</p> <p>Analysis : ICP-MS</p>	<p>Internal method</p> <p>MOC3/152</p>
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Mycotoxins

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant and animal origin Raw material, derived and/or processed products	Determination of mycotoxins	Extraction: by solvent Purification: SPE Immunoaffinity Analysis: UFLC/LC-MS/MS

* **Flexible scope FLEX3:** The laboratory is recognised as competent, in the area covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Physical and chemical analyses		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Cereals Oilseeds Nuts and nuts Dried fruit Legumes (Pulses) Cereal by-products Products derived from oilseeds and nuts Fruit products: Compotes, Juices Alcoholic beverages Coffee/Cocoa Coffee/cocoa products Food and drink for children Animal feeds	Determination of ochratoxin A content	Extraction: by solvent Purification: Immunoaffinity Analysis: UFLC	Internal method MOC3/65
Fresh fruit and its derivatives, including children's food (fruit-based baby food)	Determination of patulin content	Extraction/purification: Solvent/SPE Analysis: LC-MS-MS-MS	Internal method MOC3/37
Cereals Oilseeds Nuts and nuts Dried fruit Legumes (Pulses) Cereal by-products Products derived from oilseeds and nuts Fruit products: Compotes (including infant food) Food for children Animal feeds	Determination of aflatoxin content (B1, B2, G1, G2)	Extraction: by solvent Purification : Immunoaffinity Analysis: UFLC	Internal method MOC3/71

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Cereals Cereal by-products Fresh fruit and vegetables Fruit products derived from fruit Infant nutrition Animal feeds : Oilseed products: Oilseed meal	Determination of the content of : Deoxynivalenol (DON), Fumonisin (B1+B2, B3), HT2 toxin, T2 toxin, Zearalenone (ZEA), Aflatoxins (B1, B2, G1, G2), Ochratoxin A (OTA)	Extraction / purification: Solvent / SPE Purification : Immunoaffinity Analysis: UFLC	Internal method MOC3/107
Spices Dry plants Coffee and cocoa and their by-products	Determination of aflatoxin (G2, G1, B2, B1) and ochratoxin content	Extraction: by solvent Purification : Immunoaffinity Analysis: LC-MS-MS-MS	Internal method MOC3/108
Milk and all dairy products including infant food Dairy products containing cereals	Determination of the Aflatoxin M1 content	Extraction: by solvent Purification: Immunoaffinity Analysis: UFLC	Internal method MOC3/110
Cereals	Determination of Deoxynivalenol (DON) content	Extraction: by solvent Purification : Immunoaffinity Analysis : UFLC	Internal method MOC3/78
Cereals, Cereal by-products Legumes (pulses) Fresh vegetables, Leafy vegetables, Animal feed, Oilcake	Determination of the content in Datura Alkaloids (atropine and scopolamine)	Extraction: By solvent Purification: SPE Analysis: LC-MS-MS-MS	Internal method MOC3/121
Cereals Cereal by-products Legumes (pulses) Fresh vegetables Animal feeds Oilseed meal Infant nutrition	Determination of the content of Ergot Alkaloid ((Ergocristine*/Ergocristinine*, Ergotamine*/Ergotamine*/Ergotaminine*, Ergocryptine*/Ergocryptinine*, Ergometrine*/Ergometrinine*, Ergosin*/Ergosinine*, Ergocornine*/Ergocorninine*)	Extraction: by solvent Purification: SPE Analysis: UFLC	Internal method MOC3/122
Cereals	Determination of the Zearalenone (ZEA) content	Extraction: by solvent Purification: SPE Analysis: UFLC	Internal method MOC3/60

Phycotoxins

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Miscellaneous food / Physico-chemical analyses		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21
SUBJECT	SOUGHT / MEASURED CHARACTERISTICS	METHOD PRINCIPLE
Shellfish Molluscs	Determination of phycotoxin content	Extraction: Solvent extraction Analysis: LC-MS/MS

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Detailed scope

Agri-food / Miscellaneous food / Physico-chemical analyses		Analysis of pesticide residues and organic contaminants in food and feed, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	SOUGHT / MEASURED CHARACTERISTICS	METHOD PRINCIPLE	METHOD REFERENCE
Shellfish Molluscs	<u>Determination of phycotoxin content:</u> AO Group et analogues DTX : AO, DTX1, DTX2, DTX3 PTX Group : PTX1, PTX2, PNTX-G AZA Group: AZA1, AZA2, AZA3 YTX Group: YTX, 45OHYTX, homo YTX, 45OH homo YTX	Préparation /Extraction : solvent hydrolysis Analysis : LC-MS/MS	Internal method MOC3/413

Phytocontrol Analysis Laboratory

Alkaloids

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feed	Organic Contaminant Residues	Extraction : Solid/cold liquid Liquid/cold liquid Hot solid/liquid Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotopic dilution, LC-GC-FID

**Flexible scope FLEX3: The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.*

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Spices	Piperine	Preparation/Extraction : Solid/cold liquid Purification : SPE Analysis: LC-MS/MS	Internal method MOC3/51
Potato potato	Chaconine and solanine	Preparation/Extraction : Solid/cold liquid Analysis: LC-MS/MS	Internal method MOC3/50

Phytocontrol Analysis Laboratory

General scope*

Agri-food / Physical and chemical analyses		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant and animal origin Raw material, derived and/or processed products	Determination of mycotoxins	Extraction: by solvent Purification: SPE Immunoaffinity Analysis: UFLC/LC-MS/MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Physical and chemical analyses		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Original products plant and animal: Leafy vegetables Cereals and cereal products Aromatic and medicinal plants Food supplements SpicesHoney	Echimidine, Echimidine-N-oxide, (Z)-Erucifoline, (Z)-Erucifoline-N-oxide, Europine hydrochloride, Europine-N-oxide, Heliotrine, Heliotrine-N-oxide, (Indicin hydrochloride+ Lycopsamine) (Indicine-N-oxide+Intermedine-N-oxide) Integerrimine, Integerrimine-N-oxide, Jacobine, Jacobine-N-oxide, Lasiocarpine, Lasiocarpine-N-oxide, , Lycopsamine-N-oxide, Monocrotaline, Monocrotaline-N-oxide, Retrorsine, Retrorsine-N-oxide, Senecionine, Senecionine-N-oxide, Senkirkine, Seneciphylline, Seneciphylline-N-oxide, Senecivernine, Senecivernine-N-oxide, Trichodesmine, Intermedine	Preparation/Extraction : By solvent Purification : SPE Analysis: LC-MS/MS	Internal method MOC3/123

Phytocontrol Analysis Laboratory

GMOs

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Plants / Molecular genetics		Analysis related to genetically modified organisms - O.G.M.
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Gross revenues Processed products Grain products Sweet and sweetened products Animal feedingstuffs	Maize PCR target plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenisation / Grinding Extraction Real-time PCR (qualitative and quantitative)
Gross revenues Processed products Grain products Sweet and sweetened products Animal feedingstuffs	Soya PCR target plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenisation / Grinding Extraction Real-time PCR (qualitative and quantitative)

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Plants / Molecular genetics			Analysis related to genetically modified organisms - O.G.M.		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Plant species Maize	Species-specific PCR target: DHA	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by real-time PCR magnetic beads Qualitative/quantitative	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on maize MON 810, GA21, NK 603 and MON 863 MOC3/103
Plant species Maize	PCR target specific to a GMO sequence* Screening P35S	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by real-time PCR magnetic beads	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on MON 810, NK maize 603 and MON 863 MOC3/103
Plant species Maize	PCR target specific to a GMO sequence* Tnos screening	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by real-time PCR magnetic beads	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on maize, GA21, NK 603 and MON 863 MOC3/103

Phytocontrol Analysis Laboratory

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event MON810	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by real-time PCR magnetic beads	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on MON 810 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of a specific event MON863	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by real-time PCR magnetic beads	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on MON 863 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event NK603	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on NK603 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event GA21	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on GA21 maize MOC3/103

Plant species Maize	PCR target specific to a GMO sequence Identification of specific event Bt11	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on Bt11 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event Mon88017	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on Mon88017 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event T25	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards.... Validation according to NF EN ISO standards 21569, 24276, 21570 and 21571 and their respective amendments on T25 maize MOC3/103
Plant species Maize	PCR target specific to a GMO sequence Identification of specific event TC1507	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on TC1507 maize MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: DAS-40278-9	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

Phytocontrol Analysis Laboratory

Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: DAS-59122-7	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of specific event: MIR162	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Specific event identification: MIR604	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: My89034	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: VCO-01981-5	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

Phytocontrol Analysis Laboratory

Species vegetable Maize	Specific PCR target of a GMO sequence Specific event identification: Mon87427	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Specific event identification: MON87403	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Specific event identification: MON87460	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Specific event identification: MON87411	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: DP-4114-3	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

Phytocontrol Analysis Laboratory

		products, animal feed			
Species vegetable Maize	Specific PCR target of a GMO sequence Identification of a specific event: MZHGG0JG	Raw maize products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Plant species Soya	Species-specific PCR target: Lectin	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on soybean RRS, <i>RRS2</i> MOC3/103
Plant species Soya	PCR target specific to a GMO sequence* Screening P35S	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on <i>RRS</i> soybean MOC3/103
Plant species Soya	PCR target specific to a GMO sequence* Tnos screening	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on <i>RRS</i> soybean MOC3/103
Plant species Soya	Specific PCR target of a GMO sequence Identification of a specific RRS event	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF IN ISO 21569, 24276, 21570 and 21571 and their respective amendments on RRS soybean MOC3/103
Plant species Soya	PCR target specific to a GMO sequence Identification of specific event RRS2	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on soybean RRS2

Phytocontrol Analysis Laboratory

				Real-time PCR	MOC3/103
Plant species Soya	PCR target specific to a GMO sequence Identification of specific event FG72	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative/ quantitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on soybean FG72 MOC3/103
Plant species Soya	PCR target specific to a GMO sequence Identification of specific event Mon87701	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on Mon87701 soybean MOC3/103
Plant species Soya	PCR target specific to a GMO sequence Identification of specific event A2704- 12	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by adsorption on silica column or semi- automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on soybean A2704-12 MOC3/103

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Plant species Soya	Specific PCR target of a GMO sequence Identification of a specific event DAS-81419	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ grinding Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Soya	Specific PCR target of a GMO sequence Identification of a specific event MON87751	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ grinding Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Soya	Specific PCR target of a GMO sequence Identification of a specific event DAS-68416-4	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ grinding Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species vegetable Soya	Specific PCR target of a GMO sequence Identification of a specific event DAS-44406-6	Crude soybean products (seeds, grains, flour...) Processed products Grain products, Sweetened and sweetened products, animal feed	Qualitative	Homogenisation/ grinding Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	Method reference
Plant species Oilseed rape	Rape Plant-species-specific PCR target: CRUA	<i>Raw oilseed rape (seed for planting, grains, flour...)</i> <i>Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative / Quantitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Screening P35S	<i>Raw oilseed rape (seed for planting, grains, flour...)</i> <i>Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Screening TNOS	<i>Raw oilseed rape (seed for planting, grains, flour...)</i> <i>Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape GMO sequence-specific PCR target Identification specific event: 73496	<i>Raw oilseed rape (seed for planting, grains, flour...)</i> <i>Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification évènement spécifique : MON88302	<i>Raw oilseed rape (seed for planting, grains, flour...)</i> <i>Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103

Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : MS1	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : MS8	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : RF1	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : RF3	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : RT/GT73	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : T45	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103

Phytocontrol Analysis Laboratory

Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : TOPAS 19-2	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103
Plant species Oilseed rape	Oilseed Rape Cible PCR spécifique d'une séquence OGM Identification événement spécifique : RF2	<i>Raw oilseed rape (seed for planting, grains, flour...) Processed products Cereal products, sweetened products, animal feedstuffs</i>	Qualitative	Homogenisation/grinding: Manual extraction of DNA by silica column adsorption or semi-automated extraction of DNA by magnetic beads real-time PCR	Internal method MOC3/103

Allergens

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Allergens / Molecular genetics		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Grain products Fruits and vegetables Sweet and sweetened products Coffee, Tea and Infusion Dairy products Fat products Meat products Alcoholic and non-alcoholic drinks Spices Compound Foods Infant nutrition Dietary products	Detection of target DNA sequence of a plant or animal species (identification of species or likely to cause allergies) Simplex or duplex detection	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column Semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Allergens / Molecular genetics

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Raw cereal products Processed cereal products Fruits and vegetables Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feeds Infant nutrition Dietary products Sweet and sweetened products	Specific target DNA sequence of: cashew nuts : Ana o3 2S albumin	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Fruits and vegetables Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feeds Infant nutrition Dietary products Sweet and sweetened products	Specific target DNA sequence of: nuts : Vicilin-like seed storage protein	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Fruits and vegetables Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion	Specific target DNA sequence of: the hazelnut : Cor a 1	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)

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Spices: turmeric and paprika Compound feeds Infant nutrition Dietary products Sweet and sweetened products			Real-time PCR amplification
Raw cereal products Processed cereal products Fruits and vegetables Fat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Sweet and sweetened products	Specific target DNA sequence of: almond: plum 1 precursor	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Fat products: sunflower oil and butter Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion: tea and jasmine flower Sweet and sweetened products	Specific target DNA sequence of: the peanut: Arah 1 gene	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Fat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Sweetened and sweetened products: cake and cake preparation	Specific target DNA sequence of: sesame: 2S albumin	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

<p>Raw cereal products</p> <p>Processed cereal products</p> <p>Fruits and vegetables</p> <p>Dairy products</p> <p>Fat products</p> <p>Meat products</p> <p>Alcoholic beverages</p> <p>Non-alcoholic beverages</p> <p>Coffee, tea, infusion</p> <p>Spices</p> <p>Compound feeds</p> <p>Infant nutrition</p> <p>Dietary products</p> <p>Sweet and sweetened products</p>	<p>Specific target DNA sequence of:</p> <p>pecan:</p> <p>Vicilin-like seed storage protein</p>	<p>Grinding / Homogenisation</p> <p>Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification</p> <p>(qualitative method)</p>	<p>Internal method:</p> <p>MOC3/115</p> <p>Grinding / Homogenisation</p> <p>DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)</p> <p>Real-time PCR amplification</p>
<p>Raw cereal products</p> <p>Processed cereal products</p> <p>Dairy products</p> <p>Fat products</p> <p>Meat products</p> <p>Alcoholic beverages</p> <p>Non-alcoholic beverages</p> <p>Coffee, tea, infusion</p> <p>Compound feeds</p> <p>Infant nutrition</p> <p>Dietary products</p> <p>Sweet and sweetened products</p>	<p>Specific target DNA sequence of:</p> <p>soya: lectin</p>	<p>Grinding / Homogenisation</p> <p>Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification</p> <p>(qualitative method)</p>	<p>Internal method:</p> <p>MOC3/115</p> <p>Grinding / Homogenisation</p> <p>DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)</p> <p>Real-time PCR amplification</p>
<p>Raw cereal products</p> <p>Processed cereal products</p> <p>Fat products</p> <p>Alcoholic beverages</p> <p>Coffee, tea, infusion</p> <p>Infant nutrition</p> <p>Sweet and sweetened products</p>	<p>Specific target DNA sequence of:</p> <p>lupin: conglutin alpha mRNA</p>	<p>Grinding / Homogenisation</p> <p>Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification</p> <p>(qualitative method)</p>	<p>Internal method:</p> <p>MOC3/115</p> <p>Grinding / Homogenisation</p> <p>DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)</p> <p>Real-time PCR amplification</p>
<p>Raw cereal products</p> <p>Processed cereal products</p> <p>Fruits and vegetables</p> <p>Dairy products</p> <p>Fat products</p> <p>Alcoholic beverages: beer and brandy</p> <p>Non-alcoholic beverages</p> <p>Spices</p>	<p>Specific target DNA sequence of:</p> <p>celery: ribosomal RNA</p>	<p>Grinding / Homogenisation</p> <p>Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification</p> <p>(qualitative method)</p>	<p>Internal method:</p> <p>MOC3/115</p> <p>Grinding / Homogenisation</p> <p>DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)</p> <p>Real-time PCR amplification</p>

Compound feeds Infant nutrition Sweet and sweetened products			
Raw cereal products Processed cereal products Fruits and vegetables Fat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Compound feeds Infant nutrition Sweet and sweetened products	Specific target DNA sequence of: the Brazil nut: 2S albumin (ber e1)	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products: soybeans and barley Processed cereal products Fruits and vegetables Sweet and sweetened products	Specific target DNA sequence of: pistachio: COR gene dehydrin	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Fruits and vegetables Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, Tea, Infusion Spices Compound feeds Infant nutrition Dietary products Sweet and sweetened products: chocolate powder	Specific target DNA sequence of: Macadamia nut: vicillin precursor	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Raw cereal products Processed cereal products Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feeds Infant nutrition Dietary products	Mustard -specific target DNA sequence: MADS D (white mustard) and reverse transcriptase from gypsy-like retroelement (yellow/black mustard)	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time duplex PCR amplification Qualitative method	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feeds Infant nutrition Dietary products	White mustard specific target DNA sequence: MADS D	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time duplex PCR amplification Qualitative method	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Dairy products Fat products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feeds Infant nutrition Dietary products	DNA sequence specific for yellow/black mustard : reverse transcriptase from gypsy-like retroelement	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time duplex PCR amplification Qualitative method	Internal method: MOC3/115 Grinding / Homogenisation DNA extraction: NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

Raw cereal products Alcoholic beverages Compound feeds	Mollusc specific target DNA sequence not provided by the PCR kit supplier	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads PCR amplification real time Qualitative method	Internal method MOC3/115 : Grinding / Homogenisation DNA Extraction: NucleoSpin®Plant I or NucleoMag®Plant II (Macherey-Nagel) Real-time PCR amplification
Raw cereal products Processed cereal products Alcoholic beverages Non-alcoholic beverages Compound feeds	Fish specific target DNA sequence: 18S RNA	Grinding / Homogenisation Manual DNA extraction by adsorption on silica column or semi-automated DNA extraction by magnetic beads Real-time PCR amplification Qualitative method	Internal method MOC3/115 : Grinding / Homogenisation : IC3/01-01.D DNA extraction: NucleoSpin®Plant II or NucleoMag®Plant II (Macherey-Nagel) Real-time PCR amplification

Scope FLEX3

General scope*

Food / Allergens / Immunology		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Grain products	Detection and quantification of allergenic proteins	Grinding / Homogenisation Extraction of ELISA proteins
Alcoholic and non-alcoholic drinks		
Compound feeds		
Meat products		
Fishery products		
Sweet products		
Dairy products		
Spices and aromatic plants		
Infant nutrition		
Dietetic, dietary and special food		

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Food / Allergens / Immunology			
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Grain products : Breakfast cereals Raw cereals and first processing products wheat, rye, barley, oats, spelt and their hybrid strains, rice, sorghum, quinoa, lentils, chickpeas, flour and derivatives, cereal flakes, tapioca, buckwheat, brewer's yeast, guar gum. Compound feeds : Mix for pastries Sauce preparations Pizzas Bread slices Cereal and vegetable puree, ravioli Spices and aromatic plants Dietetic, dietary and special food: Dairy substitutes for soy-based	Gluten detection and quantification	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/119 according to supplier kit : R7001 RIDASCREEN® Gliadin (R. BIOPHARM)
Dietetic food, diet and special diet: yeasts and maltodextrin Compound feeds: preparation for sauces (powders to be rehydrated) Cereal products: starches Alcoholic beverages: beer, wine Dairy products: cheese	Gluten detection and quantification	Grinding/Homogenisation Protein extraction ELISA	Internal method MOC3/149 Supplier kit: R7021 RIDASCREEN® Gliadin Competitive (R. BIOPHARM)

Phytocontrol Analysis Laboratory

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fishery products: Fresh and canned fish Alcoholic beverages: Wine	Detection of histamine	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/135 according to supplier kit : R1601 RIDASCREEN® Histamin (R. BIOPHARM)
Non-alcoholic drinks: Almond milk Soya milk Fruit juices Grain products : Raw cereals and first processing products Blown cereals Grain products containing chocolate Sweet products : Sorbets & ice-cream with water Compound feeds Prepared dishes based on cereals and vegetables Baby food based on cereals and vegetables Dietetic, dietary and special food: Dairy substitutes for soy-based	Detection and quantification of casein	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/125 according to supplier kit : R4612 RIDASCREEN®FAST Casein (R. BIOPHARM)
Grain products : Raw cereals and first processing products Blown cereals Compound feeds : Baby food Chile Bolognese sauce Soup Meat products : Chorizo- Pork rib ham Dairy products Cheese Beverages Wine	Detection and quantification of egg protein	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/125 according to supplier kit : R6402 RIDASCREEN®FAST Ei/Egg Protein (R. BIOPHARM)

Cereal products (raw and first processing) Alcoholic and non-alcoholic drinks Processed cereal products Compound feeds Dietetic, dietary and special food: Dairy substitutes for soy-based	Detection and quantification of total milk protein	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/125 according to supplier kit R4652 RIDASCREEN FAST Milk (R BIOPHARM)
Cereal products (raw and first processing): Corn flour, Soya, Quinoa, Wheat semolina Processed cereal products: Mini plum, Mixed dry pastry, Cookies, Bread, Compound foods: Chili con carne, Bolognese sauce, Mediterranean pizza, Doy passato BBF ; Sweet products: Organic candy, Hazelnut ice cream, Glucose syrup, Chocolate Dietetic, dietary and special food: Dairy substitutes for soy-based	Detection and quantification of Beta-lactoglobulin	Grinding/Homogenisation Protein extraction ELISA	Internal method MOC3/190 according to supplier kit R4912 RIDASCREEN® FAST β-Lactoglobulin (R. BIOPHARM)
Cereal products (raw and first processing) Processed cereal products Compound feeds Infant nutrition Meat products Non-alcoholic beverages	Detection and quantification of soya	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/197 Supplier kit: R7102 RIDASCREEN®FAST Soya (R. BIOPHARM)

Dietetic foods Infant nutrition Compound feeds	Detection and quantification of tropomyosin	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/125 Supplier kit: R7312 RIDASCREEN®FAST Crustacean (R. BIOPHARM)
Grain products Corn flour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine Sweet products Jam, Tagada candy, Glucose syrup, Honey Dairy products Soy yoghurt, plain yoghurt, Tesco Vanilla, fresh goat cheese Spices and aromatic herbs Mustard seed, Nutmeg, Pepper, Garlic Dried fruit Soya yoghurt	Hazelnut detection and quantification	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/192 Supplier kit : R6802 RIDASCREEN Fast Hazelnut (R-BIOPHARM)
Grain products Corn flour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine Sweet products Jam, Tagada candy, Glucose syrup, Honey Dairy products Soy yoghurt, plain yoghurt, Tesco Vanilla, fresh goat cheese	Detection and quantification of kernels	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/191 Supplier kit : R6901 RIDASCREEN Fast Mandel / Almond (R-BIOPHARM)

<p>Spices and aromatic herbs Mustard seed, Nutmeg, Pepper, Garlic</p> <p>Dried fruit</p> <p>Soya yoghurt</p>			
<p>Grain products Corn flour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Soy yoghurt, plain yoghurt, Tesco Vanilla, fresh goat cheese</p> <p>Spices and aromatic plants Mustard seed, Nutmeg, Pepper, Garlic</p> <p>Dried fruit</p> <p>Soya yoghurt</p>	Detection and quantification of nuts	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/193 Supplier kit : Walnut WAL-E01 (LIBIOS, Immunolab)
<p>Grain products Corn flour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Soy yoghurt, plain yoghurt, Tesco Vanilla, fresh goat cheese</p> <p>Spices and aromatic herbs Mustard seed, Nutmeg, Pepper, Garlic</p>	Detection and quantification of macadamia nuts	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/194 Supplier kit : Macadamia Nut MAC-E01 (LIBIOS, Immunolab)

<p>Dried fruit</p> <p>Soya yoghurt</p>			
<p>Grain products Corn flour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Soy yoghurt, plain yoghurt, Tesco Vanilla, fresh goat cheese</p> <p>Spices and aromatic herbs Mustard seed, Nutmeg, Pepper, Garlic</p> <p>Dried fruit</p> <p>Soya yoghurt</p>	<p>Detection and quantification of pistachio nuts</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/195 Supplier kit : Pistachio PIS-E01 (LIBIOS, Immunolab)</p>
<p>Cereal products (raw and first processing): Maize, round rice, quinoa, teff flour</p> <p>Processed cereals: Pastry mix, mini plum cake, cookies, madeleines</p> <p>Spices : Mustard seed, cumin, coriander seeds, paprika</p> <p>Sweetened sweetened: Jam, candy tagada, glucose syrup, honey</p> <p>Dairy products : Soy yoghurt, plain yoghurt, Tesco dessert cream, fresh goat cheese</p> <p>Soya yoghurt</p>	<p>Detection and quantification of lupin</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/590 Supplier kit : R6102 RIDASCREEN Fast Lupine / (R-BIOPHARM)</p>

<p>Cereal products (raw and first processing): Maize, round rice, quinoa, teff flour</p> <p>Processed cereals: Pastry mix, mini plum cake, cookies, madeleines</p> <p>Spices: Mustard seed, paprika, nutmeg, pepper</p> <p>Sweetened sweetened: Jam, candy tagada, glucose syrup, honey</p> <p>Dairy products : Soy yoghurt, plain yoghurt, Tesco dessert cream, fresh goat cheese</p> <p>Soya yoghurt</p>	<p>Peanut detection and quantification</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/591 Supplier kit : R6202 RIDASCREEN Fast Peanut / (R-BIOPHARM))</p>
<p>Cereal products (raw and first processing): Maize, round rice, quinoa, teff flour</p> <p>Processed cereals: Pastry mix, mini plum cake, cookies, madeleines</p> <p>Spices: Mustard seed, paprika, nutmeg, pepper</p> <p>Sweetened sweetened: Jam, candy tagada, glucose syrup, honey</p> <p>Dairy products : plain yoghurt, Tesco dessert cream, fresh goat cheese</p> <p>Dried fruit : Nut, hazelnut, peanut, walnut of macadamia</p>	<p>Cashew nuts detection and quantification</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/592 Supplier kit : R6872 RIDASCREEN Fast Cashew (RBIOPHARM)</p>

Contaminants from packaging and materials

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feedingstuffs	Organic Contaminant Residues	Extraction : Solid / cold liquid Liquid / Cold liquid Solid / hot liquid Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotopic dilution LC-GC-FID

****Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.*

Detailed scope

Phytocontrol Analysis Laboratory

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SAS with a capital of 1,000,000 euros - RCS Nîmes 490 024 049 - VAT intra FR 08 490 024 049 - APE 7120B

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Vegetable products: Water-rich products Acidic and water-rich products Sugar-rich products and low water content Low water and fat products Alcoholic beverages Fruit and vegetable juices Sodas Products of animal origin: Dairy products including infant nutrition	Bisphenol A	Extraction : Solid/cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/62

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Alcoholic drinks, Oils	Determination of the content of <u>phthalates</u> and other plasticisers: - DMP (Dimethyl phthalate) -DiBP (Di-iso-butyl phthalate) -DBP (Di-n-butyl phthalate) -BBP (Benzyl butyl phthalate) -DiPP (Di-iso-pentyl phthalate) -nPiPP (n-pentyl-iso-pentyl phthalate) -DPP (Di-n-pentyl phthalate) -DHxP (Di-n-hexyl phthalate) -DEHP (Bis(2-ethylhexyl) phthalate) -DCHP (Dicyclohexyl phthalate) -DiHpP (Di-iso-heptyl phthalate) -DnOP (Di-n-octyl phthalate) -DDEHT (Bis(2-ethylhexyl) terephthalate) -DiNP (Di-iso-nonyl phthalate) -DNP (Di-n-nonyl phthalate) -DiDP (Di-iso-decyl phthalate) -DiBA (Di-iso-butyl adipate) -DBA (Di-n-butyl adipate) -DINCH (1,2-cyclohexanedicarboxylic acid, diisononyl ester) -Tributyl O-acetylcitrate - DMEP (Bis(2-methoxyethyl) phthalate) - DMiP (Dimethyl isophthalate) - DMT (Dimethyl terephthalate) - DPhP (Diphenyl phthalate) - DAP (Diallyl phthalate) - DEP (Diethyl phthalate) - TBP (tributylphosphate) - DEA (Diethyl adipate) - DEHA (Bis(2-ethylhexyl) adipate) - DVA (Divinyl adipate)	Extraction : Liquid / cold liquid Analysis: GC-MS-MS-MS	Internal method MOC3/137

<p>Products of plant origin: Water-rich products Acidic and water-rich products Oil-rich products Sugar-rich products and low water content Low water and fat products Wine Fruit and vegetable juices</p> <p>Products of animal origin: Processed egg products (egg-based pastes, madeleine, pancakes)</p>	<p>Determination of the content of saturated mineral oils (MOSH) and aromatic oils (MOAH)</p>	<p>Preparation : Solid / liquid when cold or Liquid/cold liquid</p> <p>Analysis : LC/GC-FID</p>	<p>Internal method MOC3/174</p>
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Newly formed contaminants

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feedingstuffs	Pesticide residues	Extraction : Solid-Cold Liquid Hydrolysis Purification: SPE Dispersive SPE Analysis : LC/MS-MS, GC/MS-MS, GC-MS

**Flexible scope FLEX3: The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.*

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant and animal origin: Tea, cocoa, vegetable oils, soy sauce, hydrolyzed vegetable proteins, infant milk	3-MCPD (free) 2-MCPD (free) Glycidol (free)	Preparation/Extraction : Solid / cold liquid Liquid / cold liquid Purification: Derivation Analysis: GC-MS/MS	Internal method MOC3/59

Phytocontrol Analysis Laboratory

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin	Organic Contaminant Residues	Extraction: by solvent
Products of animal origin		Purification: Liquid-Solid (SPE)
Animal feedingstuffs		Analysis: UFLC, LC-MS/MS, GC-MS/MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin Spices Aromatic and medicinal plants Sugar-rich products and low water content Water-rich products, Products rich in oil, Acidic and water-rich products, Products low in water and fat, Alcoholic drinks, Fruit and vegetable juices, Sodas Original products animal: Hive products, Dairy products, Meat products, Fishery products, Fat content Animal feed: Animal feeds Miscellaneous: Cocoa	<u>Polycyclic Aromatic hydrocarbons:</u> Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Chrysene.	Preparation / Extraction : Solid / cold liquid Purification: SPE Analysis: GC-MS/MS	Internal method MOC3/23
Products of plant origin: Cereals and derived products Cocoa Tea Coffee Oil-rich products Infant nutrition Products of animal origin: Dairy products Meat products Fat content Fishery products Infant nutrition Animal feeds : Raw materials of vegetable origin	<u>Polycyclic aromatic hydrocarbons:</u> Acenaphthene, Acenaphthylene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzo(j)fluoranthene, Cyclopenta(c,d)pyrene, Dibenzo(a,h)anthracene, Dibenzo(a,h)pyrene, Fluorene, Indeno(1,2,3-cd)pyrene, 5-methylchrysene. Anthracene Phenanthrene Fluoranthene Pyrene	Extraction : Solid/cold liquid Purification: SPE Analysis: GC-MS/MS	Internal method MOC3/28

Phytocontrol Analysis Laboratory

Products of plant origin: Water-rich products and by-products, Cereals and derived products, Sugar-rich products and low water content, Nuts, Fruit and vegetable juices Vegetables, Wine, cider, beer, coffee, tea Products of animal origin: Meat products Fishery products Milk, yoghurt	Determination of the Acrylamide content	Extraction : Solid/cold liquid Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/129
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Dioxins and PCBs

Scope of accreditation N°1-1904

FIXED Scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products of plant origin: Oil-rich products Water-rich products Acidic and water-rich products Sugar-rich products and low water content Low water and low fat Infant nutrition Miscellaneous products: spices, coffee, tea, aromatic plants and medicinal	<u>Polychlorinated dibenzo-p-dioxins (PCDD):</u> 2,3,7,8-TCDD, 1,2,2,3,7,8-PeCDD, 1,2,3,3,4,7,8-HxCDD, 1,2,3,3,6,7,8-HxCDD, 1,2,3,3,7,8,9-HxCDD, 1,2,3,3,4,6,7,8-HpCDD, OCDD <u>Polychlorinated dibenzofurans (PCDF):</u> 2,3,7,8-TCDF, 1,2,2,3,7,8-PeCDF, 2,3,4,4,7,8-PeCDF, 1,2,3,3,4,7,8-HxCDF, 1,2,3,3,6,7,8-HxCDF, 1,2,3,3,7,8,9-HxCDF, 2,3,4,4,6,7,8-HxCDF, 1,2,3,3,4,6,7,8-HpCDF, 1,2,3,3,4,7,8,9-HpCDF, OCDF, <u>PCB "dioxins like":</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189 <u>PCB "Non dioxins Like" (indicators):</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180	Extraction : Under hot pressure (PFE) Purification: SPE Analysis : GC-HRMS Isotopic dilution	Internal method MOC3/130
Products of animal origin: Dairy products (cheeses, soft and hard pasta) Egg products Meat products Fishery products Infant nutrition			
Animal feeds : Flours of animal origin Compound feeds Raw materials of origin vegetable Mineral compounds			

Phytocontrol Analysis Laboratory

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Vegetable products: Products rich in oil (vegetable oils) Alcoholic beverages Fruit and vegetable juices Soda pop Animal products: Dairy products (milk, yoghurt, very fatty products) Fat content Infant nutrition Animal feeds : Fat content	<u>Polychlorinated dibenzo-p-dioxins (PCDD):</u> 2,3,7,8-TCDD, 1,2,2,3,7,8-PeCDD, 1,2,3,3,4,7,8-HxCDD, 1,2,3,3,6,7,8-HxCDD, 1,2,3,3,7,8,9-HxCDD, 1,2,3,3,4,6,7,8-HpCDD, OCDD, <u>Polychlorinated dibenzofurans (PCDF) :</u> 2,3,7,8-TCDF, 1,2,2,3,7,8-PeCDF, 2,3,4,4,7,8-PeCDF, 1,2,3,3,4,7,8-HxCDF, 1,2,3,3,6,7,8-HxCDF, 1,2,3,3,7,8,9-HxCDF, 2,3,4,4,6,7,8-HxCDF, 1,2,3,3,4,6,7,8-HpCDF, 1,2,3,3,4,7,8,9-HpCDF, OCDF, <u>PCB "dioxins like":</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189 <u>PCB "Non dioxins Like" (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180	Extraction : Liquid-Liquid Purification: SPE Analysis : GC-HRMS Isotopic dilution	Internal method MOC3/131

Fixed scope: The laboratory is recognised as competent to practice the methods described in strict compliance with the recognised methods mentioned in the scope of accreditation.

Scope FLEX3

General scope*

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Products of animal origin Animal feedingstuffs	Organic Contaminant Residues	Preparation/Extraction : Solid / cold liquid by solvent Purification: Liquid-Solid (SPE) Analysis: UFLC-FLD, LC-MS/MS, GC-MS/MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Physical and chemical analyses		Analysis of pesticide residues and organic contaminants in foodstuffs intended for human or animal consumption, biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
<p>Products of plant origin: Water-rich products, Oil-rich products, Acidic and water-rich products, Sugar-rich products and low water content, Low water and fat products, spices, aromatic and medicinal plants, Infant nutrition</p> <p>Products of animal origin: Dairy products (cheese, pasta soft and hard pastes) Egg products Meat products Fishery products Infant nutrition</p> <p>Animal feeds : Flours of animal origin Compound feeds Mineral compounds Raw materials of vegetable origin</p>	<p><u>Polychlorinated dibenzo-p-dioxins (PCDD):</u> 2,3,7,8-TCDD, 1,2,2,3,7,8-PeCDD, 1,2,3,3,4,7,7,8-HxCDD, 1,2,3,3,6,7,7,8-HxCDD, 1,2,3,3,7,8,8,9-HxCDD, 1,2,3,3,4,6,6,7,8-HpCDD, OCDD</p> <p><u>Polychlorinated dibenzofurans (PCDF) :</u> 2,3,7,7,8-TCDF, 1,2,2,3,7,8-PeCDF, 2,3,4,4,7,8-PeCDF, 1,2,3,3,4,7,7,8-HxCDF, 1,2,3,3,6,7,7,8-HxCDF, 1,2,3,3,7,8,8,9-HxCDF, 2,3,4,4,6,7,7,8-HxCDF, 1,2,3,4,4,6,7,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF</p> <p><u>PCB "dioxins like":</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p><u>PCB "non-dioxin like" (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>Preparation / Extraction : solid/cold liquid solid/hot liquid</p> <p>Purification: SPE</p> <p>Analysis : GC-MS/MS Isotopic dilution</p>	Internal method MOC3/180
	<p>Polychlorinated dibenzo-p-dioxins (PCDD): 2,3,7,8-TCDD, 1,2,2,3,7,8-PeCDD, 1,2,3,3,4,7,7,8-HxCDD, 1,2,3,3,6,7,7,8-HxCDD,</p>	<p>Preparation / Extraction : Liquid/cold liquid</p> <p>Purification: SPE</p>	

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<p>Products of plant origin: Oil-rich products (vegetable oils)</p> <p>Products of animal origin: Dairy products (milk, yoghurt, cream, ice cream, very fatty products) Fat content Infant nutrition</p> <p>Animal feeds : Fat content</p>	<p>1,2,3,3,7,8,8,9-HxCDD, 1,2,3,3,4,6,6,7,8-HpCDD, OCDD</p> <p>Polychlorinated dibenzofurans (PCDF) : 2,3,7,7,8-TCDF, 1,2,2,3,7,8-PeCDF, 2,3,4,4,7,8-PeCDF, 1,2,3,3,4,7,7,8-HxCDF, 1,2,3,3,6,7,7,8-HxCDF, 1,2,3,3,7,8,8,9-HxCDF,</p> <p>2,3,4,4,6,7,7,8-HxCDF, 1,2,3,4,4,6,7,7,8-HpCDF, 1,2,3,4,7,8,9- HpCDF, OCDF</p> <p>PCB "dioxins like": PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p>PCB "non-dioxin like" (indicators) : PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>Analysis: GC-MS/MS Isotopic dilution</p>	<p>Internal method MOC3/181</p>
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Residues of veterinary medicinal products Scope of accreditation N°1-1904

Scope FLEX1

# Agri-food / Miscellaneous food / Microbiological analyses		Analyses of substances authorised or not authorised for veterinary or zootechnical use (veterinary medicinal products and dyes for pharmacological use) - LAB GTA 30/99-6	
Subject	Sought / Measured Characteristic	Method principal	Method reference
Lait	Detection of residues with antibiotic activity	Tube diffusion	Delvotest T (validation AFNOR- DSM 28/02-02/12)

Scope FLEX3

General scope*

#Agri-food / Physico-chemical analyses		Analysis of substances authorised or not for veterinary or zootechnical use (veterinary medicinal products) - LAB GTA 30/99-6
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Foodstuffs and foodstuffs Biological matrices of animal origin	Residues of veterinary medicinal products	Preparation : Solvent extraction Purification: SPE Dispersive SPE Analysis : LC-MS/MS, LC-HRMS

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Detailed scope

#Agri-food / Physico-chemical analyses		Analysis of substances authorised or not for veterinary or zootechnical use (veterinary medicinal products) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Eggs Muscle tissue Milk Honey Fish products: fish, shellfish, crustaceans	Chloramphenicol	Preparation : Solvent extraction Purification: Dispersive SPE Analysis: LC-MS/MS	Internal method MOC3/147
Muscle tissue, Fish products, Egg, Milk	Screening method and confirmation of: 2-aminoflubendazole, Albendazole, Cambendazole, Diazinon, Ethopabate, Fenobucarb, Florfenicol, Flunixin, Haloperidol, Iprnidazole metabolite (IPZ-OH), Levamisole, Mebendazole, Sulfaethoxypyridazine, Sulfamethoxazole, Sulfamoxole, Sulfathiazole, Sulfisomidine, Tilmicosin, Trichlorfon, Trimethoprim, Xylazine	Preparation : Solid/Liquid (by solvent) Liquid/Liquid (by solvent) Purification : Liquid/solid (SPE) Analysis : LC-HRMS, LC-MS/MS	Internal method MOC3-146
Honey	Détermination des nitrofuranes : AOZ, AMOZ, SEM, AHD	Préparation : Extraction par solvant Hydrolyse Dérivation Purification : SPE Analyse : LC-MS/MS	Internal method MOC3/452

#Agri-food / Physico-chemical analyses		Analysis of substances authorised or not for veterinary or zootechnical use (veterinary medicinal products) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Eggs Muscle tissue Milk Fish products	Determination of nitrofurans : AHD (1-Aminohydantoin) AMOZ (3-Amino-5-morpholinomethyl-2-oxazolidinone) AOZ (3-amino-2-oxazolidinone) SEM (Semicarbazide) DNSH (3,5-Dinitrosalicylhydrazide)	Preparation: Solvent Extraction Hydrolysis Diversion Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/459
Honey	Determination of tetracyclines: oxytetracycline, 4-epi-oxytetracycline, tetracycline, 4-epi-tetracycline, demeclocycline, metacycline Quinolones: Σ enrofloxacin and ciproflo - xacin, enrofloxacin, ciprofloxacin, nalidixic acid, oxolinic acid, cinoxacin, difloxacin, enoxacin, fleroxacin, flumequine, lomefloxacin, marbofloxacin, norfloxacin, orbifloxacin, sarafloxacin, sparfloxacin, pazufloxacin, pipemidic acid, pefloxacin, nadifloxacin Nitroimidazoles: metronidazole hydroxide, dimetridazole, metronidazole, ipronidazole and other pharmacologically active substances: Lincomycin	Preparation: Solvent Extraction Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/453
Honey	Determination of aminosides : Apramycine, Dihydrostreptomycine, Kanamycine, Spectinomycine, Paromomycine, Streptomycine, Neomycine B	Preparation: Solvent Extraction Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/450

Honey	<p>Determination of sulfonamides :</p> <p>dapsone, Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine, Sulfaclozine.sulfachloropyrazine, Sulfadiazine, Sulfadiméthoxine, Sulfadimidine, Sulfadoxine, Sulfaethoxypyridazine, Sulfaguanidine, Sulfamerazine, Sulfameter.Sulfamethoxydiazine, Sulfamethizole, Sulfamethoxazole, Sulfamethoxypyridazine, Sulfamonomethoxine, Sulfamoxole, Sulfaphenazole, Sulfapyridine, Sulfaquinoxaline, Sulfasalazine, Sulfathiazole, Sulfatroxazole, Sulfisomidine, Sulfisoxazole.Sulfafurazole, Sulfisozole</p>	<p>Preparation: Solvent Extraction</p> <p>Purification: SPE</p> <p>Analysis: LC-MS/MS</p>	Internal method MOC3/458
<p>Eggs</p> <p>Muscle tissue</p> <p>Milk</p> <p>Fish products</p> <p>Honey</p>	<p>Détermination des nitroimidazoles :</p> <p>Ronidazole Metronidazole Iprnidazole Dimetridazole Ternidazole Secnidazole Tinidazole</p> <p>et des métabolites (2-hydroxy-metronidazole, 2-hydroxy-ipronidazole, HMMNI (2-hydroxy-dimetridazole))</p>	<p>Préparation : Extraction par solvant</p> <p>Analyse : LC-MS/MS</p>	Internal method MOC3/456

Food colouring agents

Scope of accreditation N°1-1904

FIXED Scope

Agri-food / Miscellaneous food, beverages (excluding drinking water) and sweetened and sweetened products / Physico-chemical analysis		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-118	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Spices and condiments Compound feeds Sauce	Dosing of dyestuffs: Auramine, Fast garnet GBC, Oil orange SS, Para red, P-nitroaniline, Sudan blue 2, Sudan I, Sudan II, Sudan III, Sudan IV, Sudan red 7B, Sudan red G, Sudan yellow, Toluidine red, Vert de leucomalachite.	Extraction: by solvent Analysis: LC-MS/MS	Internal method MOC3/163
Non-alcoholic beverages	Dosing of dyestuffs: E101, E110, E122, E123, E124, E129, E131, E132, E133, E151	Extraction: by solvent Analysis: UFLC-DAD	Internal method MOC3/161
Compound foodstuffs Spices and condiments Dairy products Meat products Fishery products Coffee, Tea, Herbal Tea Non-alcoholic beverages	Curcuminoids Curcumin Bis-demethoxycurcumin demethoxycurcumin	Extraction: by solvent Analysis: LC-MS/MS	Internal method MOC3/162

Fixed scope: The laboratory is recognised as competent to perform the tests in strict compliance with the methods mentioned in the scope of accreditation. Technical changes to the operating mode are not permitted.

Nutritional values

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Miscellaneous foods, Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses		
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human nutrition Animal feedingstuffs	Determination of sodium content	Preparation : Mineralisation (wet process) Analysis: ICP-MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119			
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruits and vegetables Compound feeds Dairy products Fat products Sweet and sweetened products Grain products Egg products Meat products Fishery products Coffee, Tea, Infusion Non-alcoholic beverages Spices and condiments Dietetic foods, diet foods, special foods Animal feed: Complete or complementary compound feedingstuffs Raw materials for animal feed	Determination of total sodium content and calculation of salt content	Preparation : Mineralisation (wet process) Analysis: ICP-MS	Internal method MOC3/152

Scope FLEX3

General scope*

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	
Human nutrition	Determination of carbohydrate components	Preparation : Water extraction Analysis : Ion chromatography / Pulsed amperometry	

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruits and vegetables Compound feeds Dairy products Sweet and sweetened products Grain products Dietetic foods	Determination of the content of Fructose, Glucose, Lactose, Maltose, Saccharose	Preparation : Water extraction Analysis : Ion chromatography / Pulsed amperometry	Internal method MOC3/168

Nutritional values

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Meat products, fats, beverages (excluding drinking water) and sweetened and sweetened products, cereal products / Physical and chemical analyses		
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-80-82-82-118-119		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human food	Extraction of fat for characterisation Determination of methyl esters of fatty acid	Preparation : Solvent extraction: n-hexane / Isopropanol 3 /2 (v/v) Methylation Analysis: GC-FID

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Meat products, fats, beverages (excluding drinking water) and sweetened and sweetened products, cereal products / Physical and chemical analyses			
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-80-82-82-118-119			
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fat products Sweet and sweetened products Dietetic foods, diet foods, special foods Meat products Grain products except raw grains	Extraction of fat for characterisation	Solvent extraction: n-hexane / Isopropanol 3 / 2 (v/v)	Internal method MOC3/160
Fat products Sweet and sweetened products Dietetic foods, diet foods, special foods Meat products Grain products except raw grains	Determination of methyl esters of fatty acid	Preparation: Methylation Analysis: GC-FID	Internal method MOC3/160

FIXED Scope

Agri-food / Miscellaneous food, Dairy products, Meat products, Seafood, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physico-chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-80-81-81-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruit and vegetables Dietetic foods Diet foods Special diet Compound foods Spices and condiments Dairy products Meat products Fishery products Sweetened and sweetened products Coffee, tea, infusion Grain products Animal feed: Compound feeds	Determination of water activity	Hygrometry (Dew point principle)	Internal method MOC3/155
Fruits, Processed fruits Ice Creams Non-alcoholic beverages Honey	Determination of the sugar content (Brix degree)	Refractometry	Internal method MOC3/169
Human food: Dietetic foods Compound feeds Fruits and vegetables Fat products Sweet and sweetened products Grain products Animal feed: Compound feeds and raw materials	Determination of total nitrogen content and calculation of protein content	Dumas Method: O2 Combustion Catharometric detection	Internal method MOC3/186

Fixed scope: The laboratory is recognised as competent to perform the tests in strict compliance with the methods mentioned in the scope of accreditation. Technical changes to the operating mode are not permitted.

FIXED Scope

Food processing / Fatty substances / Physical and chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/82	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fat products : Oilseeds, oilseeds Nuts and nuts Mayonnaise	Determination of the peroxide value	Titrimetry	Internal method MOC3/171

Fixed scope: The laboratory is recognised as competent to perform the tests in strict compliance with the methods mentioned in the scope of accreditation. Technical changes to the operating mode are not permitted.

FLEX1 Reach

Food processing / Fatty substances / Physical and chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/82	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fats of animal and vegetable origin	Determination of acid value and acidity	Titrimetry	NF EN ISO 660
Milk fat and butter products	Determination of acid value and acidity	Titrimetry	NF EN ISO 1740
Fats of animal and vegetable origin	Determination of the peroxide value	Titrimetry	NF EN ISO 3960

Flexible scope FLEX1: The laboratory is recognised as competent to perform the tests according to the referenced methods and their subsequent revisions.

Scope FLEX3

General scope*

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses		
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-82		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human nutrition	Determination of acid value and acidity	Titrimetry

Detailed scope

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physico-chemical analyses			
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-82			
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fat products : oilseeds nuts mayonnaise Compound feeds	Determination of acid value and acidity	Titrimetry	Internal method MOC3/172

FLEX1 Reach

Agri-food / Dairy products / Physico-chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/61	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Milk	Determination of fat content	Gravimetric method	NF EN ISO 1211
Milk, cream and unsweetened condensed milk	Determination of dry matter	Oven drying Gravimetry	NF EN ISO 6731

Flexible scope FLEX1: The laboratory is recognised as competent to perform the tests according to the referenced methods and their subsequent revisions.

Scope FLEX3

General scope*

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses		
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-118-119		
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human nutrition	Determination of dietary fibre content	Preparation: Manual and automatic enzymatic digestion Analysis: Gravimetry

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physico-chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fruits and vegetables Compound feeds Sweet and sweetened products Grain products	Determination of total dietary fibre	Preparation : Manual enzymatic digestion Analysis: Gravimetry	Internal method MOC3/156
Dietetic foods, Diet foods, Special diet Fruits and vegetables Compound feeds Sweet and sweetened products Grain products Spices and condiments	Determination of total dietary fibre	Preparation : Automatic enzymatic digestion Analysis: Gravimetry	Internal method MOC3/165

Phytocontrol Analysis Laboratory

Scope FLEX3

General scope*

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human nutrition Animal feedingsuffs	Determination of total fat content	Preparation : Hydrolysis Solvent extraction Analysis: Gravimetry

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruits and vegetables Compound feeds Dairy products Fat products excluding seeds oilseeds Sweet and sweetened products Grain products except raw grains Dietetic foods Spices and condiments Meat products Beverages no alcoholic Animal feed: Complete or complementary compound feedingstuffs	Determination of total fat content	Preparation : Hydrolysis Solvent extraction Analysis: Gravimetry	Internal method MOC3/154

Phytocontrol Analysis Laboratory

Scope FLEX3

General scope*

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	
Human nutrition Animal feedingstuffs	Determination of the total nitrogen content	Kjeldahl: Mineralisation Distillation Titrimetry	

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruits and vegetables Compound feeds Dairy products Fat products Sweet and sweetened products Grain products Dietetic foods Spices and condiments Animal feed: Complete compound feedingstuffs or complementary	Determination of total nitrogen content and calculation of protein content	Kjeldahl: Mineralisation Distillation Titrimetry	Internal method MOC3/153

Scope FLEX3

General scope*

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	
Human nutrition Animal feedingstuffs	Determination of humidity	Drying process Gravimetry	
	Determination of ash content	Dry Mineralisation Gravimetry	

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Dairy products, Animal feed, Fats, Beverages (excluding drinking water) and sweetened and sweetened products, Grain products / Physical and chemical analyses			
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-81-82-118-119			
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Human food: Fruits and vegetables Compound feeds Dairy products Fat products excluding seeds oilseeds Sweet and sweetened products Grain products except raw grains Dietetic foods Spices and condiments Non-alcoholic beverages Animal feed: Complete compound feedingstuffs or complementary Raw materials	Determination of the dry matter content or water content	Drying process Gravimetry	Internal method MOC3/150
Human food: Fruits and vegetables Compound feeds Dairy products Fat products excluding seeds oilseeds Sweet and sweetened products Grain products except raw grains Dietetic foods Spices and condiments Animal feed: Complete compound feedingstuffs or complementary	Determination of ash content	Dry Mineralisation Gravimetry	Internal method MOC3/151

Scope FLEX3

General scope*

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products / Physical and chemical analyses		
		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in human food - LAB GTA 25/60-118
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Human food	Determination of the sulphite content	Preparation : Optimized method of Monier-Williams: Distillation Solid / liquid extraction Derivation Purification : Liquid/solid extraction (SPE) Analysis : Titrimetry LC-MS/MS

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Beverages (excluding drinking water) and sweetened and sweetened products / Physical and chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in human food - LAB GTA 25/60-118	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Fresh fruit and vegetables Compound feeds Non-alcoholic beverages Dried fruit, tomatoes dried, mustard	Determination of the sulphite content	Optimized method of Monier-Williams: Distillation Titrimetry	Internal method MOC3/164
Fruits and vegetables Compound feeds Non-alcoholic beverages	Determination of the sulphite content	Preparation : Solid/liquid extraction Derivation Purification : Liquid/solid extraction (SPE) Analysis : LC-MS/MS	Internal method MOC3/132

Norovirus and Hepatitis A

Scope of accreditation N°1-1904

Scope FLEX3

General scope*

Agri-food / Microbiological analysis		Microbiological analyses of products and agri-food environment - LAB GTA 59
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD
Frozen fruit/fresh and vegetables Bivalve molluscs Food surface sampling by swabbing	Hepatitis A virus genome	Manual extraction of viral RNA by adsorption on silica Real-time RT-PCR amplification (qualitative method)
Frozen fruit/fresh and vegetables Bivalve molluscs Food surface sampling by swabbing	Norovirus genome GI and GII Groups	Manual extraction of viral RNA by adsorption on silica Real-time RT-PCR amplification (qualitative method)

***Flexible scope FLEX3:** The laboratory is recognised as competent, in the field covered by the general scope, to adopt any recognised method and to develop or implement any other method for which it has provided validation.

Detailed scope

Agri-food / Microbiological analysis		Microbiological analyses of products and agri-food environment - LAB GTA 59	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Frozen fruit/fresh and vegetables Bivalve molluscs Food surface sampling by swabbing	Hepatitis A virus genome	Manual extraction of viral RNA by adsorption on silica Real-time RT-PCR amplification (qualitative method)	Internal method MOC3/199
Frozen fruit/fresh and vegetables Bivalve molluscs Food surface sampling by swabbing	Norovirus genome GI and GII Groups	Manual extraction of viral RNA by adsorption on silica Real-time RT-PCR amplification (qualitative method)	Internal method MOC3/199

Food microbiology

Scope of accreditation N°1-6066

FLEX1 Reach

Agri-food / Microbiological analysis		Microbiological analyses of products and agri-food environment - LAB GTA 59	
SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products intended for human consumption, animal feed and environmental samples	Microorganisms	Counting of colonies at 30°C by deep seeding technique	NF EN ISO 4833-1
Products intended for human consumption, animal feed and environmental samples	Microorganisms	Colony enumeration at 30°C by surface seeding technique	NF EN ISO 4833-2
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Enterobacteriaceae	Research and counting by NPP technique with pre-enrichment at 30°C or 37°C	NF ISO 21528-1
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Enterobacteriaceae	Colony count at 37°C (or 30°C)	NF ISO 21528-2
All food and feed products and samples from the production environment	Enterobacteriaceae	Colony count at 37°C	BRD 07/24-11-11/13
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Coliforms	Search and enumeration by MPN technique at 30°C (or 37°C)	NF ISO 4831
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Coliforms	Colony count at 30°C (or 37°C)	NF ISO 4832
Products intended for human consumption or animal feed	Thermotolerant coliforms	Colony counts at 44°C	NF V08-060
Products intended for human consumption or animal feed	<i>Escherichia coli</i> - β -glucuronidase positive	Colony counts at 44°C	NF ISO 16649-2

Phytocontrol Analysis Laboratory

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
All human food products	Coliforms	Colony count at 37°C by RAPID chromogenic medium <i>E. coli</i> 2	BRD 07/08-12/04
All food and feed products	<i>Escherichia coli</i> -β-glucuronidase positive	Colony count at 37°C by RAPID chromogenic medium <i>E. coli</i> 2	BRD 07/07-12/04
All food and feed products	Enterobacteriaceae	Colony count at 37°C per medium chromogenic REBECCA™ + EB	AES 10/07-01/08
All food and feed products	<i>Escherichia coli</i> - β - positive glucuronidase	Colony count at 37°C per medium chromogenic REBECCA™ BASE or REBECCA™+ EB	AES 10/06-01/08
Products intended for human consumption or animal feed	<i>Escherichia coli</i> O157	Enrichment Separation / Concentration Isolation - Confirmation	NF EN ISO 16654
Raw meat products, raw plants, raw milk, raw milk, raw milk-based dairy products and samples from the industrial production environment	<i>Escherichia coli</i> O157	Research by enzyme immuno-reaction (ELFA) Automated system VIDAS® UP <i>E. coli</i> O157 including H7 (VIDAS ECPT)	ORGANIC 12/25-05/09
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Presumed <i>Escherichia coli</i>	Search and enumeration by NPP technique at 37°C and then 44°C	NF ISO 7251
Products intended for human consumption or animal feed	Coagulase-positive staphylococci	Colony enumeration at 35°C or 37°C using Baird Parker agar medium	NF EN ISO 6888-1
Products intended for human consumption or animal feed	Coagulase-positive staphylococci	Aerobic colony counts at 35°C or 37°C by using rabbit plasma agar and Fibrinogen medium	NF EN ISO 6888-2
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Coagulase-positive staphylococci	Search and enumeration by MPN technique for small numbers	NF EN ISO 6888-3
All human food products	Coagulase-positive staphylococci	Colony count at 37°C by specific medium RAPID'Staph and confirmation	Nordval n°049 Method certified by Nordval
Products intended for human consumption or animal feed	Sulphitor-reducing bacteria	Colony count at 46°C in anaerobic conditions	NF V08-061
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Sulphitor-reducing bacteria developing under anaerobic conditions	Colony count at 37°C	NF ISO 15213

SUBJECT	CHARACTERISTIC MEASURED OR SEARCHED	PRINCIPLE OF THE METHOD	METHOD REFERENCE
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	<i>Clostridium perfringens</i>	Colony count at 37°C and confirmation	NF EN ISO 7937
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Presumptive <i>Bacillus cereus cereus</i>	Colony count at 30°C	NF EN ISO 7932
All food and feed products	Presumptive <i>Bacillus cereus cereus</i>	Enumeration at 30°C by Compass® <i>Bacillus cereus</i> Agar chromogenic medium	BKR 23/06-02/10/10
Products intended for human consumption or animal feed	Mesophilic lactic acid bacteria	Colony count at 30°C	NF ISO 15214
Meat and meat products	<i>Pseudomonas spp.</i>	Colony count at 25°C	NF EN ISO 13720
Products intended for human consumption or animal feed	Yeasts and moulds	Colony count at 25°C	NF V08-059
All human food and animal feed products	Yeasts and moulds	Colony count at 25°C using Symphony	BKR 23/11-12/18
Products intended for human consumption or animal feed	Yeasts and moulds growing on a medium with low water activity	Colony count at 25°C	NF V08-036
Products intended for human consumption or animal feed and samples from the food production and distribution environment	<i>Listeria monocytogenes</i> and <i>Listeria spp.</i>	Colony count at 37°C and confirmation	NF EN ISO 11290-2
All food products and environmental samples	<i>Listeria monocytogenes</i> and <i>Listeria spp.</i>	Enumeration at 37°C by ALOA chromogenic medium COUNT™	AES 10/05-09/06
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	<i>Salmonella spp. including Salmonella Typhi and Salmonella Paratyphi</i>	Isolation / Identification and confirmation search	NF EN ISO 6579-1
All food and feed products and samples from the production environment	<i>Salmonella</i>	Research by chromogenic medium RAPID <i>Salmonella</i>	BRD 07/11-12/05
All food and feed products and samples from the environment (other than the farming environment)	<i>Salmonella spp</i>	IQ-Check <i>Salmonella</i> II - real-time PCR test	BRD 07/06-07/04
Products intended for human consumption or animal feed and samples from the food production and distribution environment	<i>Listeria monocytogenes</i> and <i>Listeria spp.</i>	Isolation / Identification and confirmation search	NF EN ISO 11290-1
Food products and environmental samples	<i>Listeria monocytogenes</i> and <i>Listeria spp.</i>	Research at 37°C by chromogenic medium ALOA ONE DAY™	AES 10/03-09/00
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	<i>Campylobacter spp.</i>	Colony count at 41.5°C	NF EN ISO 10272-2

Products and ingredients intended for human consumption or animal feed use, environmental samples taken in the food production and handling sectors	Cronobacter spp	Search Isolation / Identification and confirmation	NF EN ISO 22964
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Flexible scope FLEX1: The laboratory is recognised as competent to perform the tests according to the referenced methods and their subsequent revisions.

Accreditation made mandatory under the French regulatory framework specified by the text referenced in Cofrac LAB INF 99 available on www.cofrac.fr