

ANNEXE TECHNIQUE INTERNE
AGRIFOOD DEPARTEMENT
PHYTOCONTROL ANALYTICS France

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References :

Technical Annexe Cofrac N° **1-1904 rév. 17**

Technical Annexe Cofrac N° **1-6066 rév. 17**

LABORATOIRE PHYTOCONTROL (1)

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LABORATOIRE PHYTOCONTROL (2)

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BIOTECHNOLOGY UNIT (Phytocontrol 1)

CHEMICAL ANALYSIS UNIT (Phytocontrol 1)

MICROBIOLOGY UNIT (Phytocontrol 2)

Pesticide residues

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Animal products Animal feed	Pesticide residues	Extraction : Cold solid-liquid Hydrolysis Purification: SPE Dispersive SPE Analysis : LC/MS-MS, GC/MS-MS, GC-MS

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant and animal origin: Water-rich products, Oil-rich products, Acidic and water-rich products, Products high in sugar and low in water, Low-fat and low-water products, spices, aromatic and medicinal plants, Alcoholic beverages, Fruit and vegetable juices	Diquat/Paraquat	Preparation/Extraction : Solid / liquid cold extraction Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/20
Non-fatty products of plant origin: Water-rich products Starch-rich products, proteins Acidic products Pigment-rich products	Determination of chlormequat, mepiquat	Extraction: by solvent Analysis: LC-MS-MS	Internal method MOC3/21
Products of plant origin : Water-rich products Starch-rich products, proteins Acidic products Pigment-rich products	Determination of dithiocarbamate residues	Preparation/Extraction : Hydrolysis Analysis : Determination of residual CS2 by GC-MS	Internal method MOC3/01
Water-rich products Acidic and water-rich products Products high in sugar and low in water Low water and low fat products	Determination of dithiocarbamate residues by family : - Dimethyldithiocarbamates - Ethylenebisdithiocarbamates - Propylenebisdithiocarbamates	Extraction Cold solid/liquid Purification : Dispersive SPE Device : LC-MS/MS	Internal method MOC3/401

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin :</p> <p>Water-rich products</p> <p>Starch-rich products, proteins</p> <p>Acidic products</p> <p>Pigment-rich products</p>	<p><u>Multi-residue determination of pesticides</u></p> <p>Organophosphates: Chlorpyriphos ethyl Isofenphos methyl, Malathion, Parathion methyl, Phosalone, Pirimiphos methyl, Tolclophos methyl, Chlorfenvinphos, chlorpyriphos-methyl, dichlorfenthion, ethoprofos, fenclorfos, fonofos</p> <p>Organochlorines : Chlorpropham, Procymidone, Propyzamide, Vinchlozoline, Myclobutanil, Triadimefon, Triadimenol, 2-4'DDE, 2-4'DDD, 4-4'DDE, 4-4''DDT, chlorobenzylate, fenarimol, fenhexamide, hcb, hch alpha, hch beta, hch delta, mirex oxadiazon, pentachloroanisole, tebufenpyrad</p> <p>Pyrethroids: Bifenthrin, Cyhalothrin</p> <p>Organotin / 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</p> <p>Polychlorinated biphenyls (PCBs) : PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180.</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification : SPE</p> <p>Analysis : GC/MS-MS</p>	<p>Internal method MOC3/25</p>

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin : Oil-rich products</p> <p>Animal products : Dairy products Meat products Fats Fishery products Egg products</p>	<p><u>Multi-residue determination 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 Vinchlozolin, Myclobutanil Carfentrazone ethyl, Cyproconazole Diclofop methyl, Difenoconazole Fenarimol, Penconazole, Tebuconazole Tebufenpyrad</p> <p><u>Pyrethroids :</u> Bifenthrin, Cyfluthrin, Cyhalothrin Cypermethrin, Deltamethrin Fluvalinate, Tefluthrin, Tetramethrin</p> <p><u>Organotin / miscellaneous:</u> Bromopropylate, Propyconazole Fludioxonil, Benalaxyl, Cyprodinil Diflufenican, Flusilazole, Mepronil Metalaxyl, Pirimicarb, Proquinazid, Prosulfocarb, Pyriproxifen</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification : Dispersive SPE</p> <p>Analysis: GC-MS/MS</p>	<p>Internal method MOC3/26</p>

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Water-rich products Starch-rich products, proteins Acidic products Pigment-rich products Low water and low fat products	Etephon	Extraction : Cold solid/liquid Analysis: LC-MS-MS	Internal method MOC3/27
Products of plant origin : Water-rich products, Acidic and water-rich products, Low water and low fat products High-sugar, low-water products Alcoholic beverages, Fruit and vegetable juices, Baby food	Determination of the content of fentin (expressed as triphenyltin cation), fenbutatin oxide, cyhexatin and azocyclotin.	Extraction : by solvent Purification : Liquid/solid (dispersive SPE) Analysis : LC-MS/MS	Internal method MOC3/31
Products of plant origin : Water-rich products Starch-rich products, proteins Acidic products	Determination of the Maleic Hydrazide	Extraction : Cold solid/liquid Analysis : LC-MS/MS	Internal method MOC3/44
Products of plant origin : Water-rich products, Acidic and water-rich products, Products high in sugar and low in water, Low water and fat products, Alcoholic beverages, Fruit and vegetable juices, Baby food	Determination of ethylene thiourea (ETU) and propylene thiourea (PTU) content	Extraction : Cold solid/liquid Purification : Liquid/liquid Analysis : LC-MS-MS	Internal method MOC3/45

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin :</p> <p>Water-rich products, Acidic and water-rich products, Low water and low fat products High-sugar, low-water products Alcoholic beverages, Fruit and vegetable juices, Sodas</p>	<p>Determination of the 1,4-Dimethylnaphthalene, Acetochlor, Alachlor, Benfluralin, Clomazone, Diflufenican, Ethofumesate, Etofenprox, Fenpropathrin, Fenvalerate, Fluopicolide, Hexazinone, Metolachlor, Permethrin, Piperonyl Butoxide, Pyridaben, Tefluthrin, Terbufos, Terbuthylazine, Triallate, Zoxamide.</p>	<p>Extraction: by solvent</p> <p>Purification : Liquid/solid (dispersive SPE)</p> <p>Analysis: GC-MS/MS</p>	<p>Internal method MOC3/55</p>
<p>Products of plant origin :</p> <p>Baby food</p>	<p><u>Multi-residue determination 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</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification : Liquid/Solid (SPE)</p> <p>Analysis: GC-MS/MS</p>	<p>Internal method MOC3/56</p>

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Baby food	<u>Multi-residue determination of pesticides</u> Haloxyfop (free acid), Terbufos sulfoxide, Ethoprophos, Fensulfothion, Fensulfothion oxon, Fensulfothion oxon sulfone, Fensulfothion sulfone, Disulfoton sulfone, Disulfoton sulfoxide, Cadusafos	Extraction : Cold solid/liquid Analysis: LC-MS/MS	Internal method MOC3/57
Non-fat products of plant origin : Water-rich products, Acidic and water-rich products, Alcoholic beverages, Oil-rich products (oil seeds) Low water and low fat products Miscellaneous products: teas Animal feed : Fodder, oilcake Compound feed	Determination of the Glyphosate and AMPA	Extraction : Cold solid/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 Fosethyl-Aluminium and Phosphonic Acid content	Extraction : Cold solid/liquid Analysis: LC-MS/MS	Internal method MOC3/89
Products of plant origin : Water-rich products Acidic and water-rich products Products high in sugar and low in water Alcoholic beverages Fruit and vegetable juices	Determination of Perchlorate and Chlorate content	Extraction : Cold solid/liquid Analysis: LC-MS/MS	Internal method MOC3/120
Liquid and powdered whey Liquid and powdered milk	Determination of Perchlorate and Chlorate content	Solid-liquid extraction Liquid-solid purification (SPE) LC-MS/MS analysis	Internal method MOC3/424

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
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<p>Non-fatty products of plant origin :</p> <p>Water-rich products Acidic and water-rich products High sugar, low water products Low water, low fat products Alcoholic beverages Fruit and vegetable juices</p>	<p>Determination of polar residue content :</p> <p>AMPA Etherephon Fosethyl-Aluminium Glufosinate Glufosinate-N-acetyl Glyphosate Maleic hydrazide Phosphonic acid Chlorate Perchlorates</p>	<p>Extraction : Cold solid/liquid</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/414</p>
<p>Bee products :</p> <p>Honey Royal jelly Pollen Bees</p>	<p><u>Multi-residue determination of pesticides :</u></p> <p>2.4 DDD, 2.4 DDE, 4.4 DDE, 4,4 DDT, Alachlor, Bromopropylate, Chlordane (cis+trans), Chlorobenzilate, Chlorpyrifos ethyl, Chlorpyrifos methyl, Cyhalothrin, Cymiazole, Cypermethrin, Deltamethrin, 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.</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification : Dispersive SPE</p> <p>Analysis : GC-MS/MS</p>	<p>Internal method MOC3/76</p>
<p>Animal products :</p> <p>Meat products Egg products and by-products</p>	<p>Fipronil, Fipronil sulfone</p>	<p>Preparation / Extraction : Cold solid / liquid</p> <p>Purification : SPE</p> <p>Analysis : GC-MS/MS</p>	<p>Internal method MOC3/183</p>
<p>Animal products :</p> <p>Meat products Egg products and by-products.</p>	<p>Amitraz (including metabolites containing the 2,4 dimethylaniline moiety expressed as amitraz)</p>	<p>Preparation / Extraction : Hydrolysis Cold solid / liquid</p> <p>Purification : Dispersive SPE</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/184</p>
<p>SUBJECT</p>	<p>CHARACTERISTIC MEASURED OR RESEARCHED</p>	<p>PRINCIPLE OF THE METHOD</p>	<p>REFERENCE OF THE METHOD</p>
<p>Original products plant :</p> <p>Water-rich products</p>	<p>Multi-residue determination of pesticides :</p> <p>6-Benzyladenine, Acephate, Acetamiprid, Ametocradine, Amidosulfuron, Azaconazole, Azimsulfuron, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin,</p>	<p>Preparation/ Extraction: Cold solid / liquid</p> <p>Purification: SPE</p>	<p>Internal method MOC3/407</p>

<p>Acidic and water-rich products</p> <p>Products rich in sugar and low water content</p> <p>Low-calorie products water and fat</p> <p>Alcoholic beverages</p> <p>Fruit juice and Vegetables</p> <p>Sodas</p>	<p>Beflubutamide, Bensulfuronmethyl, Benthialdicarbisopropyl, Bixafen, Boscalid, Bromacil, Bromuconazole, Bupirimate, Buprofezin, Buturon, Cadusafos, Carbendazim, Carbetamide, Carboxin, Chlorantraniliprole, Chloridazon, Chlorotoluron, Chloroxuron, Chlorsulfuron, Chromafenozide, Cinidonethyl, Cinosulfuron, Clethodim-sulfoxide, Clofentezine, Clothianidin, Cyanazine, Cyantraniliprole, Cyazofamid, 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, Emamectin-benzoate B1a, Emamectin-benzoate B1b, Epoxiconazole, Ethametsulfuron-methyl, Ethidimuron, Ethiprole, Ethirimol, Etoxazole, Fenamidone, Fenamiphos sulfone, Fenamiphossulfoxide, Fenbuconazole, Fenchlorphos oxon, Fenoxaprop-ethyl, Fenoxycarb, 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, Imidachloprid, Indoxacarb, Iodosulfuronmethyl, Ioxynil, Iprovalicarb, Isazofos, Isocarbophos, Isoprocab, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenurone, Mandipropamid, MCPA, Mecarbam, Mesosulfuronmethyl, Metaflumizone, Metamitron, Metconazole</p>	<p>Analysis: LC-MS/MS</p>	
<p>SUBJECT</p>	<p>CHARACTERISTIC MEASURED OR RESEARCHED</p>	<p>PRINCIPLE OF THE METHOD</p>	<p>REFERENCE OF THE METHOD</p>
<p>Original products plant :</p> <p>Water-rich products</p> <p>Acidic and water-rich products</p>	<p>Methabenzthiazuron, Methomyl, Methoxyfenozide, Metobromuron, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metsulfuronmethyl, Mevinphos, Monalide, Monocrotophos, Monolinuron, Monuron, NAD(1-naphthyl</p>	<p>Preparation/ Extraction:</p> <p>Cold solid / liquid</p> <p>Purification: SPE</p>	<p>Internal method MOC3/407</p>

<p>Products rich in sugar and low water content</p> <p>Low-calorie products water and fat</p> <p>Alcoholic beverages</p> <p>Fruit juice and Vegetables</p> <p>Sodas</p>	<p>acetamide), Napropamide, Neburon, Nicosulfuron, Norflurazon, Novaluron, Ofurace, Omethoate, Orthosulfamuron, Oxamyl, Oxasulfuron, Paclobutrazol, Paraoxon-ethyl, Pencycuron, Penflufen, Penoxsulam, Penthioopyrad, Phenmedipham, Phorate sulfone, Phorate-oxon, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoadene, Pirmicarbdesmethyl, Promecarb, Prometon, Propamocarb, 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, Spirotetramate-enolglucoside, Spirotetramate-keto-hydroxy, Spirotetramate-monohydroxy, Spiroxamine, Sulfosulfuron, TCMTB, Tebufenozide, Tebutam, Tebuthiuron, Teflubenzuron, Tepraloxydim, Terbumeton, Terbumeton desethyl, Tetraconazole, Thiabendazole, Thiachlopid, thiamethoxam, Thiencazone methyl, Thifensulfuron-methyl, Thiobencarb, Thiodicarb, Thionazin, Thiophanatemethyl, Tricyclazole, Trifloxystrobin, Triflumuron, Triflusulfuron-methyl, Triticonazole, Tritosulfuron, Vamidothion, Warfarin</p>	<p>Analysis: LC-MS/MS</p>	
<p>aromatic and medicinal plants</p>	<p>Acetamiprid, Ametoctradine Azoxystrobin, Benthiavalicarb-isopropyl, Boscalid, Cyflufenamid Difenamide, Emamectin-benzoate b1a, Fenamidone, Fenpyroximate, Imidachlopid, Iprovalicarb, Isoxathion Linuron, Metconazole, Methoxyfenozide Propaquizafop, Pyraclostrobin Spirodiclofen, Tebufenozide Tetraconazole, Trifloxystrobin Triflumuron</p>	<p>Preparation/ Extraction: Cold solid / liquid</p> <p>Purification: SPE</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/417</p>
<p>SUBJECT</p>	<p>CHARACTERISTIC MEASURED OR RESEARCHED</p>	<p>PRINCIPLE OF THE METHOD</p>	<p>REFERENCE OF THE METHOD</p>
<p>spices</p>	<p>Acetamiprid, Dimethoate, Ethametsulfuron Imidachlopid, Isoxathion, Metrafenone Paclobutrazol, Pyraclostrobin, Thiaclopid</p>	<p>Preparation/ Extraction: Cold solid / liquid</p> <p>Purification: SPE</p>	<p>Internal method MOC3/427</p>

<p>Products of plant origin Water-rich products Acidic and water-rich products Products high in sugar and low in water Low water and low fat products Fruit and vegetable juices Alcoholic beverages Sodas</p>	<p>2,4-D 2,4,5-T Diclofop Fluazifop Haloxifop MCPA MCPB Quizalofop</p>	<p>Analysis: LC-MS/MS</p> <p>Extraction : Solvent</p> <p>Hydrolysis : Base</p> <p>Analysis : LC-MS/MS</p>	<p>Internal method MOC3/416</p>
<p>Water-rich products Oil-rich products Acidic and water-rich products Products high in sugar and low in water Aromatic and medicinal plants</p>	<p>Matrine</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification : SPE</p> <p>Analysis : LC-MS/MS</p>	<p>Internal method MOC3/421</p>
<p>Products of plant origin : Oil-rich products Products high in sugar and low in water Low water and low fat products Spices Aromatic and medicinal plants Plant extracts</p> <p>Animal products : High-fat dairy products</p>	<p>Ethylene oxide (sum of ethylene oxide and 2-chloroethanol expressed as ethylene oxide)</p>	<p>Extraction: Cold solid / liquid Hydrolysis</p> <p>Purification : Dispersive SPE</p> <p>Analysis: GC-MS/MS</p>	<p>Internal method MOC3/428</p>

FLEX3 range

General scope

Chemical and biological products/ Bio-active products/ Physico-chemical analysis		Physico-chemical methods: medicinal and aromatic plants	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	
Citrus essential oils	Pesticide residues	Extraction: Liquid / cold liquid Analysis : LC-HRMS	

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Detailed scope

Chemical and biological products/ Bio-active products/ Physico-chemical analysis		Physico-chemical methods: medicinal and aromatic plants	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Orange essential oils	Acephate, Ametryn, Atrazine-desethyl, Carboxin, Chloridazone, Cinosulfuron Clodinafop-propargyl, Coumaphos Demeton-S-methylsulfone, Desmetryn, Dichlorobenzamide, Dimethoate Diphenamid, Disulfoton-sulfoxid, Ditalimfos, Edifenfos, Ethametsulfuron-methyl Etrimfos, Fenamiphos sulfoxide, Fensulfothion, Fenthion-sulfon, Fenthion-sulfoxide, Flurtamone, Fosthiazate Heptenophos, Imazamox, Iprobenfos, Isocarbophos	Preparation/ Extraction : Liquid / cold liquid Analysis: LC-HRMS	Internal method MOC3/408

Phytocontrol Analysis laboratory

	<p>Malaoxon, Metalaxyl, Norflurazon, Omethoate, Paraoxon, Phorate-oxon-sulfoxide, Phorate-sulfoxide Phosphamidon, Profenophos, Propachlor, Pyriofenone, Pyroxsulam, Quinmerac, Sulfotep, Sulfoxaflor Thiacloprid, Thifensulfuron-methyl, Thiodicarb, Vamidothion Zoxamide</p>		
<p>Bergamot and Lemon essential oils</p>	<p>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</p>	<p>Preparation/ Extraction : Liquid / cold liquid</p> <p>Analysis: LC-HRMS</p>	<p>Internal method MOC3/408</p>

FLEX3 range

General scope

Chemical and biological products / Cosmetics and hygiene products / Physico-chemical analysis		Physico-chemical methods	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	
Finished cosmetic products and cosmetic raw materials	Determination of the content of chemical substances that can cause allergies	Extraction : Cold liquid/liquid Cold solid/liquid Purification : SPE Analysis : GC-MS/MS LC-MS/MS	

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Detailed scope

Chemical and biological products / Cosmetics and hygiene products / Physico-chemical analysis		Physico-chemical methods	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Finished cosmetic products and cosmetic raw materials excluding perfume base (washing gel, shampoo, soap, deodorant, hair dye, talc, glycerine, glycol, moisturising milk, liniment, cream, foundation, micellar water)	Allergen testing : Citral, Geraniol, Cinnamal (Cinnamaldehyde), Hydroxycitronellal, Anise alcohol (4-methoxybenzyl alcohol), Atranol, Chloratranol	Extraction : Cold liquid/liquid Cold solid/liquid Purification : SPE Analysis : LC-MS/MS	Internal method MOC3/127
Finished cosmetic products and cosmetic raw materials excluding perfume base	Allergen testing : Limonene, Benzyl alcohol, Methyl 2-octynoate, Citronellol,	Extraction : Cold liquid/liquid Cold solid/liquid	Internal method MOC3/128

Phytocontrol Analysis laboratory

<p>(washing gel, shampoo, soap, deodorant, hair dye, talc, glycerine, glycol, moisturising milk, liniment, cream, foundation, micellar water)</p>	<p>Anise alcohol (4-methoxybenzyl alcohol), Cinnamyl alcohol, Eugenol, Isoeugenol, Coumarin, α-Isomethyl ionone, Butylphenyl methylpropional (Lilial), Amyl cinnamal (α-mylcinnamaldehyde), Hydroxyisohexyl 3-cyclohexene carboxaldehyde (Lyrall), Hexyl cinnamal (α-Hexylcinnamaldehyde), Benzyl benzoate (Benzyl benzoate), Amylcinnamyl alcohol (alpha-amylicinnamyl alcohol)</p>	<p>Purification : SPE</p> <p>Analysis : GC-MS/MS</p>	
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FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Animal products Animal feed	Organic contaminant residues	Cold solids/liquid extraction Cold liquid/liquid Solid/liquid hot Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotope dilution, LC-GC-FID

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Water-rich products, Acidic and water-rich products, Alcoholic beverages, Products high in sugar and low in water, Water-poor products and fat, Fruit and vegetable juices, Sodas Animal products : Dairy products Meat products Fishery products	Determination of DDAC and LAC content	Preparation/ Extraction : Cold solid / liquid Analysis: LC-MS-MS	Internal method MOC3/145

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin : Products rich in oil Products low in water and fat (cereals and derived products, fruit and vegetable powders) Fruit and vegetable juices Alcoholic beverages High sugar, low water content products</p> <p>Animal feed : Flour of animal origin Compound feed Raw materials of plant origin</p> <p>Animal products: Dairy products including baby food Egg products Meat products Fishery products</p>	Melamine	<p>Extraction : Solvent</p> <p>Analysis : LC-MS/MS</p>	Internal method MOC3/134

FIXED range

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Water-rich products (Water content \geq 60%) Oil-rich products Acidic and water-rich products Products rich in sugar and low water content Miscellaneous products Alcoholic beverages Fruit and vegetable juices Sodas Animal products : Dairy products	Determination of the content into nitrate, nitrite, chloride, bromide	Preparation / Extraction: Water Analysis : HPLC/Cl (conductimetry)	Internal method MOC3/02

Fixed scope: *The laboratory is recognised as competent to perform the tests in strict accordance with the methods mentioned in the scope of accreditation. Technical modifications of the procedure are not allowed.*

Heavy metals

Scope of accreditation No. 1-1904

FLEX3 range

General scope

#Food / Various foods / Physico-chemical analysis		Analysis of trace elements and minerals and their chemical species in food and feed - LAB GTA 45
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food and feed (including baby food)	Metals Minerals	Mineralization Wet process by microwave under pressure Open system wet track Analysis: ICP/MS LC-ICP/MS IC-ICP/MS

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

#Food / Various foods / Physico-chemical analysis		Analysis of trace elements and minerals and their chemical species in food and feed - LAB GTA 45	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
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	Mineralization : Wet process (microwave digestion in a closed system) Wet route (open system digestion) Analysis: ICP-MS	Internal method MOC3/85
Dairy products including baby food	Aluminium	Mineralization : Wet process (microwave digestion in a closed system) Wet route (open system acid digestion) Analysis: ICP-MS	Internal method MOC3/85
Alcoholic beverages	Iron	Mineralization : Wet route (open system acid digestion) Analysis: ICP-MS	Internal method MOC3/85
Cereals Fruit and vegetables Fruit and vegetable juices Medicinal plants Products of the Honeybee Fishery products Dairy products including baby food	Arsenic III, Arsenic V, monomethyl Arsenic, dimethyl Arsenic, Arsenocholine AsC, Arsenobetaine AsB	Mineralization : Wet route (open system acid digestion) Analysis: LC-ICP/MS	Internal method MOC3/94
Cereal Products Fruit and vegetables Non-alcoholic beverages Sweetened and sugared products Fishery products Dairy products Spices and condiments, Aromatic and medicinal plants	Arsenic III, Arsenic V, monomethyl Arsenic, dimethyl Arsenic, Arsenocholine AsC, Arsenobetaine AsB	Mineralization : Wet route (open system acid digestion) Analysis: IC-ICP/MS	Internal method MOC3/434
Fishery products Fruit and vegetables Mushrooms	Mercury II HgII, Methylmercury MeHg	Mineralization : Wet route (open system acid digestion)	Internal method MOC3/144

Medicinal plants Food supplements Animal feed		Analysis: LC/ICP-MS	
Food for human consumption : Cereal products, Fatty products, Egg products, Dairy products, Meat products, Fishery products, Fruit and vegetables, Sweetened and sugared products, Non-alcoholic beverages, alcoholic beverages, Spices and condiments Aromatic and medicinal plants, Dietary and special foods, Compound foods, Baby food Animal feed : Raw materials, Complete or complementary compound feeds	Calcium, Magnesium, Phosphorus, Potassium	Mineralization : Wet route (open system digestion) Analysis : ICP-MS	Method Internal MOC3/152

Mycotoxins

Scope of accreditation No. 1-1904

FLEX 3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant and animal origin Raw material, derived and/or processed products	Determination of mycotoxins	Extraction: by solvent Purification: Immunoaffinity SPE 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 ensured validation.*

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Cereals Oilseeds Nuts Dried fruit Pulses Cereal products Oilseed and nut products Fruit products: Compotes, Juices Alcoholic beverages Coffee/Cocoa Coffee/cocoa products Food and drink for children Spices Animal feed	Determination of ochratoxin A content	Extraction: by solvent Purification: Immunoaffinity Analysis: LC-FLUO	Internal method MOC3/65
Fresh fruit and fruit products including children's food (fruit-based baby food)	Determination of patulin content	Extraction/purification: Solvent/SPE Analysis: LC-MS-MS	Internal method MOC3/37
Cereals Oilseeds Nuts Dried fruit Pulses Cereal products Oilseed and nut products Fruit products: Compotes (including baby food) Food for children Spices Animal feed	Determination of aflatoxin content (B1, B2, G1, G2)	Extraction: by solvent Purification : Immunoaffinity Analysis: LC-FLUO with post-column derivation	Internal method MOC3/71

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Cereals Cereal products Fresh fruit Fruit products Infant food Animal feed : Oilseed products: Oilseed cake	Determination of the : 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 products	Determination of aflatoxin (G2, G1, B2, B1) and ochratoxin content	Extraction: by solvent Purification : Immunoaffinity Analysis: LC-MS-MS	Internal method MOC3/108
Milk and all milk products including infant food Dairy products containing cereals	Determination of 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 products Pulses (dried vegetables) Fresh vegetables, Leafy vegetables, Animal feed, Oil cakes	Determination of the content in Datura alkaloids (atropine and scopolamine)	Extraction: By solvent Purification: SPE Analysis: LC-MS-MS	Internal method MOC3/121
Cereals Cereal products Pulses (dried vegetables) Fresh vegetables Animal feed Oilseed cake Baby food	Determination of ergot alkaloid content (Ergocristine / Ergocristinine, 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 content of zearalenone (ZEA)	Extraction: by solvent Purification: SPE Analysis: UFLC	Internal method MOC3/60
Cereals Cereal products Fresh fruit Dried fruit Nuts	Determination of the tenuazonic acid content Alternariol Alternariol methyl ether	Extraction Cold solid/liquid Purification d-SPE	Internal method MOC3/447

Fruit products Baby food Oilseeds Oilseed and nut products Spices Animal feed		Analysis LC-MS/MS	
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Alkaloids

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Animal products Animal feed	Organic contaminant residues	Extraction : Cold solid/liquid Cold liquid/liquid Solid/liquid hot Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotope dilution, LC-GC-FID

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Spices	Piperine	Preparation/Extraction : Cold solid/liquid Purification : SPE Analysis: LC-MS/MS	Internal method MOC3/51
Potato	Chaconine and solanine	Preparation/Extraction : Cold solid/liquid Analysis: LC-MS/MS	Internal method MOC3/50

Phytocontrol Analysis laboratory

General scope

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

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Determination of mycotoxins and phycotoxins in food and feed - LAB GTA 21/99-1	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant and animal origin: 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, (Indicine 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

GMO

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Including / Plants / Molecular genetics		Analyses related to genetically modified organisms - GMOs
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Raw materials Processed products Cereal products Sweetened and sugared products Animal feed	<p style="text-align: center;">Maize</p> Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenisation / Grinding Extraction Real-time PCR Qualitative and quantitative testing
Raw materials Processed products Cereal products Sweetened and sugared products Animal feed	<p style="text-align: center;">Soya</p> Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenisation / Grinding Extraction Real-time PCR Qualitative and quantitative testing
Raw materials (seeds, grains, flour, etc.) Processed products Cereal products Sweetened and sugared products Animal feed	<p style="text-align: center;">Rape</p> Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenisation / Grinding Extraction Real-time PCR Qualitative and quantitative testing

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Including / Plants / Molecular genetics			Analyses related to genetically modified organisms - GMOs		
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASUREMENT RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Maize	Plant species specific PCR target: ADH	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR qualitative/quantitative	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on MON 810, GA21, NK 603 and MON 863 maize MOC3/103
Plant species Maize	GMO sequence-specific PCR target P35S screening	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 MON 810, NK 603 and MON 863 MOC3/103
Plant species Maize	GMO sequence-specific PCR target Tnos screening	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 maize, GA21, NK 603 and MON 863 MOC3/103

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASUREMENT RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Maize	GMO sequence-specific PCR target Event specific identification MON810	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 MON 810 maize MOC3/103
Plant species Maize	PCR target GMO sequence specific Event specific identification MON863	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 MON 863 maize MOC3/103
Plant species Maize	GMO sequence specific PCR target Event specific identification NK603	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 NK603 maize MOC3/103
Plant species Maize	GMO sequence-specific PCR target Event specific identification GA21	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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	GMO sequence-specific PCR target Event specific identification Bt11	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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	GMO sequence-specific PCR target Specific event identification Mon88017	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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	GMO sequence-specific PCR target Event specific identification T25	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from the standards... Validation according to NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments on T25 corn MOC3/103
Plant species Maize	GMO sequence-specific PCR target Event specific identification TC1507	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 maize TC1507 MOC3/103
Species plant Maize	GMO sequence specific PCR target Event specific identification: DAS-40278-9	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

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

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

		products, Animal feed			
Species plant Maize	GMO sequence specific PCR target Event specific identification: MZHGOJG	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species plant Maize	GMO sequence specific PCR target Event specific identification: 5307	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species plant Maize	GMO sequence specific PCR target Event specific identification: MZIR098	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASUREMENT RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Soya	Plant species specific PCR target: Lectin	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 soybeans RRS, <i>RRS2</i> MOC3/103
Plant species Soya	GMO sequence-specific PCR target P35S screening	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 <i>RRS</i> MOC3/103
Plant species Soya	GMO sequence-specific PCR target Tnos screening	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 <i>RRS</i> MOC3/103
Plant species Soya	GMO sequence specific PCR target Event specific identification RRS	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 RRS MOC3/103
Plant species Soya	GMO sequence-specific PCR target Event specific identification RRS2	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 RRS2

		sugared products, Animal feed			MOC3/103
Plant species Soya	GMO sequence- specific PCR target Event specific identification FG72	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 soybeans FG72 MOC3/103
Plant species Soya	GMO sequence- specific PCR target Specific event identification Mon87701	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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 soybeans MOC3/103
Plant species Soya	GMO sequence- specific PCR target Event specific identification A2704- 12	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption 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

Plant species Soya	GMO sequence specific PCR target Event specific identification DAS-81419	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification MON87751	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DAS-68416-4	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DAS-44406-6	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification SYHTØH2	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method adapted from NF EN ISO 21569, 24276, 21570 and 21571 and their respective amendments MOC3/103
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASUREMENT RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD

Plant species Rape	Rape Plant species specific PCR target: CRUA	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / Quantitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape P35S screening	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape TNOS screening	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : 73496	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : MON88302	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103

		products, Animal feed			
Plant species Rape	Rape GMO sequence- specific PCR target Event specific identification : MS1	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence- specific PCR target Event specific identification : MS8	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence- specific PCR target Event specific identification : RF1	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence- specific PCR target Event specific identification : RF3	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103

Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : RT/GT73	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : T45	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : TOPAS 19-2	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : RF2	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rape	Rape GMO sequence-specific PCR target Event specific identification : Oxy-235	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared	Qualitative	Homogenisation/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103

		products, Animal feed			
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Allergens

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food / Allergens / Molecular genetics		
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Cereal products Fruit and vegetables Sweetened and sugared products Coffee, Tea and Infusions Dairy products Fatty products Meat products Alcoholic and non-alcoholic beverages Spices Compound Foods Baby food Dietetic products	Detection of target DNA sequence of a plant or animal species (species identification or allergy-prone) Simplex or duplex detection	Grinding / Homogenisation Manual DNA extraction by silica column adsorption Semi-automated DNA extraction with magnetic beads Real-time PCR amplification (qualitative method)

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Food / Allergens / Molecular genetics

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Raw cereal products Processed cereal products Fruit and vegetables Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feed Baby food Dietetic products Sweetened and sugared products	Specific target DNA sequence of : cashew nut : Ana o3 2S albumin	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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 Fruit and vegetables Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feed Baby food Dietetic products Sweetened and sugared products	Specific target DNA sequence of : the nut : Vicilin-like seed storage protein	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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 Fruit and vegetables Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion	Specific target DNA sequence of : hazelnut : Cor a 1	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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)

<p>Spices: turmeric and paprika Compound feed Baby food Dietetic products Sweetened and sugared products</p>			<p>Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fruit and vegetables Fatty products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Sweetened and sugared products</p>	<p>Specific target DNA sequence of : almond: prunin 1 precursor</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fatty products: sunflower oil and butter Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion: tea and jasmine flower Sweetened and sugared products</p>	<p>Specific target DNA sequence of : peanut: Arah 1 gene</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fatty products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Sweetened products: cake and cake mix</p>	<p>Specific target DNA sequence of : sesame: 2S albumin</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>

<p>Raw cereal products Processed cereal products Fruit and vegetables Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Spices Compound feed Baby food Dietetic products Sweetened and sugared products</p>	<p>Specific target DNA sequence of : pecan : Vicilin-like seed storage protein</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Compound feed Baby food Dietetic products Sweetened and sugared products</p>	<p>Specific target DNA sequence of : soybean: lectin</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fatty products Alcoholic beverages Coffee, tea, infusion Baby food Sweetened and sugared products</p>	<p>Specific target DNA sequence of : lupin: conglutin alpha mRNA</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fruit and vegetables Dairy products Fatty products Alcoholic beverages: beer and brandy Non-alcoholic beverages Spices</p>	<p>Specific target DNA sequence of : celery: ribosomal RNA</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>

<p>Compound feed Baby food Sweetened and sugared products</p>			
<p>Raw cereal products Processed cereal products Fruit and vegetables Fatty products Alcoholic beverages Non-alcoholic beverages Coffee, tea, infusion Compound feed Baby food Sweetened and sugared products</p>	<p>Specific target DNA sequence of : Brazil nuts : 2S albumin (ber e1)</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw grain products: soybeans and barley Processed cereal products Fruit and vegetables Sweetened and sugared products</p>	<p>Specific target DNA sequence of : the pistachio: COR gene dehydrin</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>
<p>Raw cereal products Processed cereal products Fruit and vegetables Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, Tea, Infusion Spices Compound feed Baby food Dietetic products Sweetened products: chocolate powder</p>	<p>Specific target DNA sequence of : Macadamia nut: vicillin precursor</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification (qualitative method)</p>	<p>Internal method: MOC3/115 Grinding / Homogenisation DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification</p>

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
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Raw cereal products Processed Cereal Products Dairy products Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, herbal tea Spices Compound foods Infant food Dietetic products	Mustard-specific target DNA sequence: MADS D (white mustard) and reverse transcriptase from gypsy-like retroelement (yellow/black mustard)	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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 Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, herbal tea Spices Compound foods Infant food Dietetic products	White mustard specific target DNA sequence: MADS D	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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 Fatty products Meat products Alcoholic beverages Non-alcoholic beverages Coffee, tea, herbal tea Spices Compound foods Infant food Dietetic products	Yellow/black mustard specific target DNA sequence: reverse transcriptase from gypsy-like retroelement	Milling / Homogenisation Manual DNA extraction by silica column adsorption 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 grain products Alcoholic beverages Compound feed	Mollusc-specific target DNA sequence not specified by the PCR kit supplier	Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Amplification by real-time PCR real time qualitative method	Internal method MOC3/115 : Milling / Homogenisation DNA extraction: NucleoSpin®Plant I or NucleoMag®Plant II (Macherey-Nagel) Real time PCR amplification

<p>Raw Cereal Products Processed grain products Alcoholic beverages Non-alcoholic beverages Compound foods</p>	<p>Fish-specific target DNA sequence: 18S RNA</p>	<p>Milling / Homogenisation Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR amplification qualitative method</p>	<p>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</p>
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FLEX3 range

General scope

Food / Allergens / Immunology		
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Cereal products	Detection and quantification of allergenic proteins	Grinding / Homogenisation Protein extraction ELISA
Alcoholic and non-alcoholic beverages		
Compound feed		
Meat products		
Fishery products		
Sweet products		
Dairy products		
Spices and herbs		
Baby food		
Dietary food, diet and special food		
Dried fruit		

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Food / Allergens / Immunology			
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Cereal products : Breakfast cereals Raw cereals and primary 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.</p> <p>Compound feeds : Baking mix Preparations for sauces Pizzas Breadcrumbs Cereal and vegetable purée, ravioli</p> <p>Spices and herbs</p> <p>Dietary food, diet and special food: Soy-based dairy substitutes</p>	<p>Detection and quantification of gluten</p>	<p>Grinding / Homogenisation</p> <p>Protein extraction</p> <p>ELISA</p>	<p>Internal method MOC3/119 according to supplier kit : R7001 RIDASCREEN® Gliadin (R. BIOPHARM)</p>
<p>Diet and special food: yeast and maltodextrin</p> <p>Compound food: preparation for sauces (rehydration powders)</p> <p>Cereal products: starches</p> <p>Alcoholic beverages: beer, wine</p> <p>Dairy products: cheese</p>	<p>Detection and quantification of gluten</p>	<p>Milling/Homogenisation</p> <p>Protein extraction</p> <p>ELISA</p>	<p>Internal method MOC3/149 Supplier kit: R7021 RIDASCREEN® Gliadin Competitive (R. BIOPHARM)</p>

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
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 beverages : Almond milk Soy milk Fruit juice Cereal products : Raw cereals and primary products Puffed cereals Cereal products containing chocolate Sweet products : Sorbets & water ice Compound feed Cereal and vegetable dishes Babyfood with cereals and vegetables Dietary food, diet and special food: Soy-based dairy substitutes	Detection and quantification of casein	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/125 according to supplier kit : R4612 RIDASCREEN®FAST Casein (R. BIOPHARM)
Cereal products : Raw cereals and primary products Puffed cereals Compound feeds : Babyfood Chile Bolognese sauce Soup Meat products : Chorizo- Pork chop ham Dairy products Cheese Drinks 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)

<p>Cereal products (raw and primary processing)</p> <p>Alcoholic and non-alcoholic beverages</p> <p>Processed cereal products</p> <p>Compound feed</p> <p>Dietary food, diet and special food: Soy-based dairy substitutes</p>	<p>Detection and quantification of total milk protein</p>	<p>Grinding / Homogenisation</p> <p>Protein extraction</p> <p>ELISA</p>	<p>Internal method MOC3/125 according to supplier kit R4652 RIDASCREEN FAST Milk (R BIOPHARM)</p>
<p>Cereal products (raw and primary processing): Maize flour, Soya, Quinoa, Wheat semolina</p> <p>Processed cereal products: Mini plum, Dry pastry mix, Cookies, Bread,</p> <p>Compound foods: Chili con carne, Bolognese sauce, Mediterranean pizza, Doy passato BBF ;</p> <p>Sweet products: Organic candy, Hazelnut ice cream, Glucose syrup, Chocolate</p> <p>Dietary food, diet and special food: Soy-based dairy substitutes</p>	<p>Detection and quantification of Beta-lactoglobulin</p>	<p>Grinding/Homogenisation</p> <p>Protein extraction</p> <p>ELISA</p>	<p>Internal method MOC3/190 according to supplier kit R4912 RIDASCREEN® F AST β-Lactoglobulin (R. BIOPHARM)</p>
<p>Cereal products (raw and primary processing)</p> <p>Processed cereal products</p> <p>Compound foods</p> <p>Baby food</p> <p>Meat products</p> <p>Soft drinks</p>	<p>Detection and quantification of soybeans</p>	<p>Milling / Homogenisation</p> <p>Protein extraction</p> <p>ELISA</p>	<p>Internal method MOC3/197 Supplier kit: R7102 RIDASCREEN®FAST Soya (R. BIOPHARM)</p>

<p>Dietary foods</p> <p>Baby food</p> <p>Compound feed</p>	<p>Detection and quantification of tropomyosin</p>	<p>Milling / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/125 Supplier kit: R7312 RIDASCREEN®FAST Crustacean (R. BIOPHARM)</p>
<p>Cereal products Cornflour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Plain yoghurt, Tesco Vanilla, Fresh goat cheese</p> <p>Spices and herbs Mustard seed, Nutmeg, Pepper, Garlic</p> <p>Dried fruit</p> <p>Dietary food, diet and special food: Soy yoghurt</p>	<p>Detection and quantification of hazelnut</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/192 Supplier kit : R6802 RIDASCREEN Fast Hazelnut (R- BIOPHARM)</p>
<p>Cereal products Cornflour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Plain yoghurt, Tesco Vanilla, Fresh goat cheese</p> <p>Spices and herbs Mustard seed, Nutmeg, Pepper, Garlic</p>	<p>Detection and quantification of the kernel</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/191 Supplier kit : R6901 RIDASCREEN Fast Mandel / Almond (R- BIOPHARM)</p>

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

<p>Dried fruit</p> <p>Dietary food, diet and special food: Soy yoghurt</p>			
<p>Cereal products Cornflour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine</p> <p>Sweet products Jam, Tagada candy, Glucose syrup, Honey</p> <p>Dairy products Plain yoghurt, Tesco Vanilla, Fresh goat cheese</p> <p>Spices and herbs Mustard seed, Nutmeg, Pepper, Garlic</p> <p>Dried fruit</p> <p>Dietary food, diet and special food: Soy yoghurt</p>	<p>Detection and quantification of pistachio</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 primary 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 seed, paprika</p> <p>Sweeteners: jam, tagada candy, glucose syrup, honey</p> <p>Dairy products: plain yoghurt, Tesco cream dessert, fresh goat's cheese</p> <p>Dietary food, diet and special food: Soy 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 primary 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>Sweeteners : Jam, tagada candy, glucose syrup, honey</p> <p>Dairy products : plain yoghurt, Tesco cream dessert, fresh goat's cheese</p> <p>Dietary food, diet and special food: Soy yoghurt</p>	<p>Detection and quantification of peanuts</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 primary processing) : Maize, round rice, quinoa, teff flour</p> <p>Processed cereal products : Pastry mix, mini plum cake, cookies, madeleines</p> <p>Spices : Mustard seed, paprika, nutmeg, pepper</p> <p>Sweeteners : Milk jam, tagada candy, glucose syrup, honey</p> <p>Dairy products : Chocolate yoghurt, plain yoghurt, mango yoghurt, fresh goat cheese</p> <p>Dried fruit : Nuts, hazelnuts, peanuts, macadamia nuts</p>	<p>Detection and quantification of cashew nuts</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/592 Supplier kit : R6872 RIDASCREEN Fast Cashew (R-BIOPHARM)</p>

<p>Cereal products (raw and primary processing) : Maize, rapeseed, wheat, rapeseed meal, split pea flour, split pea fibre, split pea starch and split pea protein</p>	<p>Detection and quantification of soybeans</p>	<p>Grinding / Homogenisation Protein extraction ELISA</p>	<p>Internal method MOC3/585 Supplier kit : NutriLinia Soy-E ELISA NC-6011/96 Novakits</p>
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Contaminants from packaging and materials

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Animal products Animal feed	Organic contaminant residues	Extraction : Cold solid / liquid Liquid / Cold liquid Solid / liquid when hot Purification: Liquid-Solid (SPE) Analysis: UFLC, LC-MS/MS, GC-MS/MS Isotope dilution LC-GC-FID

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin: Water-rich products Acidic and water-rich products Products high in sugar and low in water Low water and low fat products Alcoholic beverages Fruit and vegetable juices Sodas</p> <p>Animal products : Dairy products including baby food</p>	Bisphenol A	<p>Extraction : Cold solid/liquid</p> <p>Purification: SPE</p> <p>Analysis: LC-MS/MS</p>	Internal method MOC3/62
<p>Products of plant origin : Water-rich products Acidic and water-rich products Oil-rich products Sugar-rich, low-water products Products low in water and fat Wine Fruit and vegetable juices</p> <p>Products of animal origin : Processed egg products (egg pasta, madeleine, pancakes)</p>	Determination of the content of saturated mineral oils (MOSH) and aromatic oils (MOAH)	<p>Preparation: Cold solid/liquid or Liquid/cold liquid</p> <p>Analysis : LC/GC-FID</p>	Internal method MOC3/174

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin : Alcoholic beverages, Oils</p>	<p>Determination of <u>Phthalates</u> and other plasticisers :</p> <ul style="list-style-type: none"> - DMP (Dimethyl phthalate) DiBP (Di-iso-butyl phthalate) DBP (Di-n-butyl phthalate) BBP (Benzylbutyl 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) DEHT (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) 	<p>Extraction : Liquid / cold liquid</p> <p>Analysis: GC-MS-MS</p>	<p>Internal method MOC3/137</p>

Neoformed contaminants

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin	Organic contaminant residues	Extraction: by solvent
Animal products		Purification: Liquid-Solid (SPE)
Animal feed		Analysis: UFLC, LC-MS/MS, GC-MS/MS

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Phytocontrol Analysis laboratory

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant and animal origin : Tea, cocoa, vegetable oils, soy sauce, hydrolysed vegetable proteins, infant milk	3-MCPD (free) 2-MCPD (free) Glycidol (free)	Preparation/Extraction : Cold solid / liquid Liquid / cold liquid Purification: Bypass Analysis: GC-MS/MS	Internal method MOC3/59
Yoghurt, cheese (hard, soft) Dairy fat products (butter, cream) Oil-rich products Low water and low fat products Aromatic and medicinal plants (except flowers, leaves) Feed (raw materials of plant origin and fat) Soy sauce, Hydrolysed vegetable protein Baked goods and pastries Chocolate and Cocoa Products	3-MCPD esters 2-MCPD esters Glycidyl esters	Extraction : Solid / liquid Liquid / liquid Hydrolysis Bypass Purification: Liquid/Liquid Analysis: GC-MS/MS	Internal method MOC3/58

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin Spices Aromatic and medicinal plants Products high in sugar and low in water Water-rich products, Oil-rich products, Acidic and water-rich products, Low water and fat products, Alcoholic beverages, Fruit and vegetable juices, Sodas</p> <p>Original products animal : Products of the Honeybee, Dairy products, Meat products, Fishery products, Fats</p> <p>Animal feed : Animal feed</p> <p>Miscellaneous : Cocoa</p>	<p><u>Aromatic hydrocarbons polycyclic :</u></p> <p>Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Chrysene.</p>	<p>Preparation / Extraction : Cold solid / liquid</p> <p>Purification: SPE</p> <p>Analysis: GC-MS/MS</p>	<p>Internal method MOC3/23</p>
<p>Products of plant origin : Water-rich products and by-products, Cereals and derived products, Products high in sugar and low in water, Nuts, Fruit and vegetable juices Vegetables, Wine, cider, beer, coffee, tea</p> <p>Animal products : Meat products Fishery products Milk, yoghurt</p>	<p>Determination of Acrylamide content</p>	<p>Extraction : Cold solid/liquid</p> <p>Purification: SPE</p> <p>Analysis: LC-MS/MS</p>	<p>Internal method MOC3/129</p>

Dioxins and PCBs

Scope of accreditation No. 1-1904

FIXED range

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin : Oil-rich products Water-rich products Acidic and water-rich products Products rich in sugar and low water content Low water and fat products fat Baby food Miscellaneous products: spices, coffee, tea, aromatic plants and medicinal</p> <p>Animal products : Dairy products (cheese, soft and hard cheeses) Egg products Meat products Fishery products Baby food</p> <p>Animal feed : Flours of animal origin Compound feed Original raw materials plant Mineral compounds</p>	<p><u>Polychlorinated dibenzo-p-dioxins (PCDD) :</u> 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD</p> <p><u>Polychlorinated dibenzofurans (PCDF) :</u> 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF,</p> <p><u>PCB "dioxin like":</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p><u>Non-dioxin like PCBs (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>Extraction : Under hot pressure (IEP)</p> <p>Purification: SPE</p> <p>Analysis : GC-HRMS Isotope dilution</p>	Internal method MOC3/130

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin: Oil-rich products (vegetable oils)</p> <p>Alcoholic beverages</p> <p>Fruit and vegetable juices</p> <p>Soda</p> <p>Animal products: Dairy products (milk, yoghurt, high fat products)</p> <p>Fats</p> <p>Baby food</p> <p>Animal feed :</p> <p>Fats</p>	<p><u>Polychlorinated dibenzo-p-dioxins (PCDD) :</u></p> <p>2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD,</p> <p><u>Polychlorinated dibenzofurans (PCDF) :</u></p> <p>2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF,</p> <p><u>PCB "dioxin like":</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p><u>Non-dioxin like PCBs (indicators) :</u></p> <p>PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>Extraction :</p> <p>Liquid-Liquid</p> <p>Purification:</p> <p>SPE</p> <p>Analysis :</p> <p>GC-HRMS</p> <p>Isotope dilution</p>	<p>Internal method MOC3/131</p>

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

FLEX3 range

General scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin Animal products Animal feed	Organic contaminant residues	Preparation/Extraction : Cold solid / liquid by solvent Purification: Liquid-Solid (SPE) Analysis: UFLC-FLD, LC-MS/MS, GC-MS/MS

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Other foodstuffs/ Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
<p>Products of plant origin : Oil-rich products Baby food Water-rich products Acidic and water-rich products Products high in sugar and low in water Low water and low fat products Spices Aromatic and medicinal plants</p> <p>Animal products : Dairy products (cheeses, pasta soft and hard cheeses) Egg products Meat products Fishery products Baby food</p> <p>Animal feed : Flours of animal origin Compound feed Mineral compounds Raw materials of plant origin</p>	<p><u>Polychlorinated dibenzo-p-dioxins (PCDD) :</u> 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD</p> <p><u>Polychlorinated dibenzofurans (PCDF) :</u> 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF</p> <p><u>PCB "dioxin like" :</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p><u>Non-dioxin like PCBs (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>Preparation / Extraction : solid/liquid cold solid/liquid hot</p> <p>Purification: SPE</p> <p>Analysis : GC-MS/MS Isotope dilution</p>	Internal method MOC3/180
	<p>Polychlorinated dibenzo-p-dioxins (PCDD) : 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD,</p>	<p>Preparation / Extraction : Cold liquid/liquid</p> <p>Purification:</p>	

<p>Products of plant origin : Oil-rich products (vegetable oils)</p> <p>Animal products : Dairy products (milk, yoghurt, cream, ice cream, high fat products) Fats Baby food</p> <p>Animal feed : Fats</p>	<p>1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, OCDD</p> <p>Polychlorinated dibenzofurans (PCDF) : 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF,</p> <p>2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, OCDF</p> <p>PCB "dioxin like" : PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189</p> <p>Non-dioxin like PCBs (indicators) : PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180</p>	<p>SPE</p> <p>Analysis: GC-MS/MS Isotope dilution</p>	<p>Internal method MOC3/181</p>
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Veterinary drug residues

Scope of accreditation No. 1-1904

Range FLEX1

#Food / Various foods / Microbiological analysis		Analyses of authorised or unauthorised substances for veterinary or zootechnical use (veterinary medicinal products and dyes for pharmacological use) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Milk	Screening for residues with antibiotic activity	Diffusion in tubes	Delvotest T (AFNOR- DSM validation 28/02-02/12)

FLEX3 range

General scope

#Food / Various foods / Physico-chemical analysis		Analyses of authorised or unauthorised substances for veterinary or zootechnical use (veterinary medicinal products and dyes for pharmacological use) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	
Foodstuffs Biological matrices of animal origin	Veterinary drug residues	<p>Preparation: Solvent extraction Hydrolysis Bypass</p> <p>Purification : Dispersive SPE SPE</p> <p>Analysis : LC-MS/MS LC-HRMS</p>	

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

#Food / Various foods / Physicochemical analysis		Analysis of authorised or unauthorised substances for veterinary or zootechnical use (veterinary medicines) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Eggs Muscles Milk Honey Fishery products : fish, shellfish, crustaceans	Chloramphenicol	Preparation: Solvent extraction Purification: dispersive SPE Analysis: LC-MS/MS	Internal method MOC3/147
Muscles, Fishery products, Eggs, Milk	Method of screening and confirmation of: 2-aminoflubendazole, Albendazole, Cambendazole, Diazinon, Ethopabate, Fenobucarb, Florfenicol, Flunixin, Haloperidol, Ipronidazole metabolite (IPZ-OH), Levamisole, Mebendazole, Sulfaethoxypyridazine, Sulfamethoxazole, Sulfamoxole, Sulfathiazole, Sulfisomidine, Tilmicosin, Trichlorfon, Trimethoprim, Xylazine	Preparation: Solids/Liquids (by solvent) Liquid/Liquid (by solvent) Purification : Liquid/solid (SPE) Analysis : LC-HRMS, LC-MS/MS	Internal method MOC3/146
Honey	Determination of nitrofurans : AOZ, AMOZ, SEM, AHD	Preparation: Solvent extraction Hydrolysis Bypass Purification: SPE Analysis: LC-MS/MS	Internal method MOC3/452

#Food / Various foods / Physicochemical analysis		Analysis of authorised or unauthorised substances for veterinary or zootechnical use (veterinary medicines) - LAB GTA 30/99-6	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Eggs Muscles Milk Fishery 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 Bypass 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 of 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 aminoglycosides: Apramycin, Dihydrostreptomycin, Kanamycin, Spectinomycin, Paromomycin, Streptomycin, Neomycin B	Preparation: Solvent extraction Purification: SPE Analysis : LC-MS/MS	Internal method MOC3/450

Honey	<p>Determination of sulfonamides: dapsone, Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine, Sulfaclozine.sulfachloropyrazine, Sulfadiazine, Sulfadimethoxine, Sulfadimidine, Sulfadoxine, Sulfaethoxyppyridazine, Sulfaguanidine, Sulfamerazine, Sulfameter.Sulfamethoxydiazine, Sulfamethizole, Sulfamethoxazole, Sulfamethoxyppyridazine, 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>Muscles</p> <p>Milk</p> <p>Fishery products</p> <p>Honey</p>	<p>Determination of nitroimidazoles :</p> <p>Ronidazole Metronidazole Ipronidazole Dimetridazole Ternidazole Secnidazole Tinidazole</p> <p>and metabolites (2-hydroxy- metronidazole, 2-hydroxy- ipronidazole, HMMNI (2-hydroxy- dimetridazole))</p>	<p>Preparation: Solvent extraction</p> <p>Analysis : LC-MS/MS</p>	Internal method MOC3/456

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Meat products, Sea products, Beverages (except drinking water) and sweetened 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 25/60-61-80-118

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Human nutrition	Determination of dye content	<p>Preparation: Solvent extraction</p> <p>Analysis : LC-MS/MS UFLC-DAD</p>

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Meat products, Sea products, Beverages (except drinking water) and sweetened 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 25/60-61-80-118

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Spices and condiments Compound feed Sauce	Determination of dyes : Auramine, Fast garnet GBC, Oil orange SS, Para red, P-nitroaniline, Sudan blue 2, Sudan I, Sudan II, Sudan III, Sum (Sudan IV + Sudan red 7B), Sudan red G, Sudan yellow, Toluidine red, Leucomalachite green.	Extraction: by solvent Analysis: LC-MS/MS	Internal method MOC3/163
Non-alcoholic beverages	Determination of dyes : E101, E110, E122, E123, E124, E129, E131, E132, E133, E151	Extraction: by solvent Analysis: UFLC-DAD	Internal method MOC3/161
Compound feed Spices and condiments Dairy products Meat products Fishery products Coffee, Tea, Infusion 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 accordance with the methods mentioned in the scope of accreditation. Technical modifications of the procedure are not allowed.*

Nutritional values

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption Animal feed	Determination of sodium content	Preparation: Mineralization (wet process) Analysis: ICP-MS

***FLEX3 flexible scope:** 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 ensured validation.*

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal products / Physico-chemical analysis			
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Physico-chemical analyses for the determination of composition, quality and technological criteria and nutritional labelling in food and feed - LAB GTA 25/60-61-81-82-118-119			
Food for human consumption : Fruit and vegetables Compound feed Dairy products Fatty products Sweetened and sugared products Cereal products Egg products Meat products Fishery products Coffee, Tea, Infusion Non-alcoholic beverages Spices and condiments Diet foods, special foods, special diets Animal feed : Complete or complementary compound feeds Raw materials for animal feed	Determination of total sodium content and calculation of salt content	Preparation: Mineralization (wet process) Analysis: ICP-MS	Internal method MOC3/152

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption	Determination of carbohydrate components	<p>Preparation: Water extraction</p> <p>Analysis : Ion Chromatography / Pulsed Amperometry</p>

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Food for human consumption : Fruit and vegetables Compound feed Dairy products Sweetened and sugared products Cereal products Dietary foods	Determination of Fructose, Glucose, Lactose, Maltose, Sucrose	<p>Preparation: Water extraction</p> <p>Analysis : Ion Chromatography / Pulsed Amperometry</p>	Internal method MOC3/168

Nutritional values

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food / Various foodstuffs, Meat products, Fats, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-80-82-118-119

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption	Extraction of fat for characterisation Determination of fatty acid methyl esters	Preparation: Solvent extraction : n-hexane / Isopropanol 3 /2 (v/v) Methylation Analysis: GC-FID

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Phytocontrol Analysis laboratory

Food / Various foodstuffs, Meat products, Fats, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-80-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fatty products Sweetened and sugared products Diet foods, special foods, special diets Meat products Cereal products except raw cereals	Extraction of fat for characterisation	Solvent extraction : n-hexane / Isopropanol 3 /2 (v/v)	Internal method MOC3/160
Fatty products Sweetened and sugared products Diet foods, special foods, special diets Meat products Cereal products except raw cereals	Determination of fatty acid methyl esters	Preparation: Methylation Analysis: GC-FID	Internal method MOC3/160

FIXED range

Food / Various foods, Dairy products, Meat products, Seafood, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-80-81-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Food for human consumption : Fruits and vegetables Diet foods Dietary foods Special foods Spices and condiments Dairy products Meat products Fishery products Sweetened products Coffee, tea, infusions Cereal products Animal feed : Compound feed	Determination of water activity	Hygrometry (Dew point principle)	Internal method MOC3/155
Fruit, Processed fruit Ice cream Non-alcoholic beverages Honey	Determination of Sugar content (Brix degree)	Refractometry	Internal method MOC3/169
Food for human consumption : Dietary foods Compound feed Fruit and vegetables Fatty products Sweetened and sugared products Cereal products Animal feed : Compound feeds and raw materials	Determination of total nitrogen content and calculation of protein content	Dumas method: O2 combustion Detection by catharometry	Internal method MOC3/186

Fixed scope: *The laboratory is recognised as competent to perform the tests in strict accordance with the methods mentioned in the scope of accreditation. Technical modifications of the procedure are not allowed.*

FIXED range

Including / Meat products, Seafood / Physico-chemical analysis		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/80	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fishery products	Determination of the total volatile basic acid concentration (ABVT) and trimethylamine (TMA)	Preparation: Filtration Distillation Analysis : Titrimetry	Internal method MOC3/188
Meat products	Determination of starch content	Preparation: Dissolution Hydrolysis Filtration Analysis : Titrimetry	Internal method MOC3/561
Meat products	Determination of the L(-)hydroxyproline and calculation of collagen content	Preparation: Dissolution Acid hydrolysis Filtration Analysis : Colorimetry	Internal method MOC3/189

FIXED range

Including / Fat / Physico-chemical analysis		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/82	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fatty products : Oilseeds 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 accordance with the methods mentioned in the scope of accreditation. Technical modifications of the procedure are not allowed.

Range FLEX1

Including / Fat / Physico-chemical analysis		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/82	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fats of animal and vegetable origin	Determination of acid number and acidity	Titrimetry	NF EN ISO 660
Milkfat and butter products	Determination of acid number 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.

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-82	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	
Food for human consumption	Determination of acid number and acidity	Titrimetry	

Detailed scope

Phytocontrol Analysis laboratory

Including / Various foods, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-82	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fatty products : oilseeds nuts mayonnaise Compound feed	Determination of acid number and acidity	Titrimetry	Internal method MOC3/172

Range FLEX1

Including / Dairy 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 25/61	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Milk	Determination of the 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.

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	
Food for human consumption	Determination of dietary fibre content	Preparation: Automatic enzymatic digestion Analysis: Gravimetry	

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Including / Various foods, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Diet food, Diet food, Special diet Fruit and vegetables Compound feed Sweetened and sugared products Cereal products Spices and condiments	Determination of total dietary fibre	Preparation: Automatic enzymatic digestion Analysis: Gravimetry	Internal method MOC3/165

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption Animal feed	Determination of total lipid content	Preparation: Acid hydrolysis Microwave hydrolysis Solvent extraction Microwave extraction Analysis: Gravimetry

FLEX3 flexible scope: *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 ensured validation.*

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal products / Physico-chemical analysis			
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-61-81-82-118-119			
Food for human consumption : Fruit and vegetables Compound feed Dairy products Fatty products excluding seeds oilseeds Sweetened and sugared products Cereal products except raw cereals Dietary foods Spices and condiments Meat products Non-drinks alcoholic beverages Animal feed : Complete or complementary compound feeds	Determination of total lipid content	Preparation: Hydrolysis Solvent extraction Analysis: Gravimetry	Internal method MOC3/154
Food for human consumption : Fruit and vegetables Compound feed Dietary foods Cereal products Dairy products Meat products/fishery products Fatty products Sweetened and sugared products Non-alcoholic beverages Animal Feed : Compound feed Raw material	Determination of total lipid content	Preparation: Microwave hydrolysis Microwave extraction Analysis : Gravimetry	Internal method MOC3/560

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption Animal feed	Determination of total nitrogen content	Kjeldahl : Mineralization Distillation Titrimetry

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Food for human consumption : Fruit and vegetables Compound feed Dairy products Fatty products Sweetened and sugared products Cereal products Dietary foods Spices and condiments Animal feed : Complete compound feed or complementary	Determination of total nitrogen content and calculation of protein content	Kjeldahl : Mineralization Distillation Titrimetry	Internal method MOC3/153

FLEX3 range

General scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal 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 25/60-61-81-82-118-119		
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption Animal feed	Determination of humidity	Desiccation Gravimetry
	Determination of ash content	Dry mineralisation Gravimetry

FLEX3 flexible scope: *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 ensured validation.*

Detailed scope

Agri-Food / Various foodstuffs, Dairy products, Animal feed, Fats and oils, Beverages (except drinking water) and sweetened products, Cereal products / Physico-chemical analysis			
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-61-81-82-118-119			
Food for human consumption : Fruit and vegetables Compound feed Dairy products Fatty products excluding seeds oilseeds Sweetened and sugared products Cereal products except raw cereals Dietary foods Spices and condiments Non-alcoholic beverages Animal feed : Complete compound feed or complementary Raw materials	Determination of dry matter content or water content	Desiccation Gravimetry	Internal method MOC3/150
Food for human consumption : Fruit and vegetables Compound feed Dairy products Fatty products excluding seeds oilseeds Sweetened and sugared products Cereal products except raw cereals Dietary foods Spices and condiments Animal feed : Complete compound feed or complementary	Determination of ash content	Dry mineralisation Gravimetry	Internal method MOC3/151

FLEX3 range

General scope

Agri-Food / Miscellaneous foodstuffs, Beverages (except drinking water) and sweetened products / Physico-chemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in Food for human consumption - LAB GTA 25/60-118
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Food for human consumption	Determination of sulphite content	<p>Preparation: Solid / liquid extraction Bypass</p> <p>Purification : Liquid/solid extraction (SPE)</p> <p>Analysis : LC-MS/MS</p>

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

Phytocontrol Analysis laboratory

Agri-Food / Miscellaneous foodstuffs, Beverages (except drinking water) and sweetened products / Physico-chemical analyses

Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in Food for human consumption - LAB GTA 25/60-118

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fruit and vegetables Compound feed Non-alcoholic beverages	Determination of sulphite content	Preparation: Solid/liquid extraction Bypass Purification : Liquid/solid extraction (SPE) Analysis : LC-MS/MS	Internal method MOC3/132

Norovirus and Hepatitis A

Scope of accreditation No. 1-1904

FLEX3 range

General scope

Phytocontrol Analysis laboratory

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

FLEX3 flexible scope: 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 ensured validation.

Detailed scope

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

Range FLEX1

Agri-Food / Various foods / Microbiological analysis		Microbiological analysis of food products and environment - LAB GTA 59	
SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products for human consumption, animal feed and environmental samples	Micro-organisms	Enumeration of colonies at 30°C using the deep seeding technique	NF EN ISO 4833-1
Products for human consumption, animal feed and environmental samples	Micro-organisms	Enumeration of colonies at 30°C by surface plating technique	NF EN ISO 4833-2
Products intended for human consumption or animal feed, environmental samples from the including sector	Enterobacteriaceae	Search and enumeration by MPN 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 including 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 07/24-11/13
Products intended for human consumption or animal feed, environmental samples from the including 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 including sector	Coliforms	Colony count at 30°C (or 37°C)	NF ISO 4832
Products intended for human consumption or animal feed	Thermotolerant coliforms	Enumeration of colonies at 44°C	NF V08-060
Products intended for human consumption or animal feed	<i>Escherichia coli</i> - β-glucuronidase positive	Enumeration of colonies at 44°C	NF ISO 16649-2

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
All 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 by medium chromogenic REBECCA™ + EB	AES 10/07-01/08
All food and feed products	<i>Escherichia coli</i> - β - glucuronidase positive	Colony count at 37°C by 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 plant products, raw milk, raw milk-based dairy products and samples from the industrial production environment	<i>Escherichia coli</i> O157	Enzyme-linked immunosorbent assay (ELFA) VIDAS® UP <i>E.coli</i> O157 including H7 (VIDAS ECPT) automated system	BIO 12/25-05/09
Products intended for human consumption or animal feed, environmental samples from the including sector	Suspected <i>Escherichia coli</i>	Search and enumeration by MPN technique at 37°C then 44°C	NF ISO 7251
Products intended for human consumption or animal feed	Coagulase positive staphylococci	Enumeration of colonies 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 enumeration of colonies at 35°C or 37°C using rabbit plasma and fibrinogen agar medium	NF EN ISO 6888-2
Products intended for human consumption or animal feed, environmental samples from the including sector	Coagulase positive staphylococci	Search and enumeration by MPN technique for small numbers	NF EN ISO 6888-3

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
All food products	Coagulase positive staphylococci	Enumeration of colonies at 37°C on RAPID [®] <i>Staph</i> specific medium and confirmation	Nordval n°049 Nordval certified method
Products intended for human consumption or animal feed	Sulphite-reducing bacteria	Colony count at 46°C under anaerobic conditions	NF V08-061
Products intended for human consumption or animal feed, environmental samples from the including sector	Sulphite-reducing bacteria growing under anaerobic conditions	Colony count at 37°C	NF ISO 15213
Products intended for human consumption or animal feed, environmental samples from the including 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 including sector	Presumptive <i>Bacillus cereus</i>	Colony count at 30°C	NF EN ISO 7932
All food and feed products	Presumptive <i>Bacillus cereus</i>	Enumeration at 30°C by Compass [®] chromogenic medium <i>Bacillus cereus</i> Agar	BKR 23/06-02/10
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 food and feed products	Yeasts and moulds	Colony count at 25°C on Symphony medium	BKR 23/11-12/18
Products intended for human consumption or animal feed	Yeasts and moulds growing on a low water activity medium	Colony count at 25°C	NF V08-036
Products intended for human consumption or animal feed and samples of 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 chromogenic medium ALOA COUNT [™]	AES 10/05-09/06
Products intended for human consumption or animal feed, environmental samples from the including sector	<i>Salmonella spp. including Salmonella Typhi and Salmonella Paratyphi</i>	Search Isolation / Identification and confirmation	NF EN ISO 6579-1
All food and feed products and samples from the production environment	<i>Salmonella</i>	RAPID chromogenic medium search <i>Salmonella</i>	BRD 07/11-12/05
All food and feed products and environmental samples (excluding livestock environment)	<i>Salmonella spp</i>	IQ-Check <i>Salmonella</i> II real-time PCR	BRD 07/06-07/04
Products intended for human consumption or animal feed and samples of the food production and distribution environment	<i>Listeria monocytogenes</i> and <i>Listeria spp</i>	Search Isolation / Identification and confirmation	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 including sector	Campylobacter spp.	Colony count at 41.5°C	NF EN ISO 10272-2
Products and ingredients intended for human consumption or animal feed, environmental samples taken in the food production and handling sectors	Cronobacter spp	Search Isolation / Identification and confirmation	NF EN ISO 22964

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

Accreditation made compulsory in the French regulatory framework specified by the text referred to in the document Cofrac LAB INF 99 available on www.cofrac.fr.