INTERNAL TECHNICAL ANNEX
AGRIFOOD DEPARTMENT
PHYTOCONTROL ANALYTICS France

Version52 - 10December 2021

References :

Cofrac Technical Annex N° **1-1904 rev. 17**

Cofrac Technical Annex N° **1-6066 rev. 19**

PHYTOCONTROL LABORATORY (1) Parc Scientifique Georges Besse 180, Philippe Maupas Street 30035 NIMES, under accreditation number 1-1904	**PHYTOCONTROL LABORATORY (2)** Parc Scientifique Georges Besse 70 Allée Graham Bell 30035 NIMES, under accreditation number 1-6066

BIOTECHNOLOGIES UNIT (Phytocontrol 1)

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Pesticide residues	Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic 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.*

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Original products plant and animal: 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

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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	Multi-residue determination of pesticides **Organophosphates:** Chlorpyriphos ethyl Isofenphos methyl, Malathion, Parathion methyl, Phosalone, Pirimiphos methyl, Tolclophos methyl, Chlorfenvinphos, chlorpyriphos-methyl, dichlorfenthion, ethoprofos, fenchlorfos, fonofos **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 **Pyrethroids:** Bifenthrin, Cyhalothrin **Organotin / miscellaneous :** Bromopropylate, Cyprodinil, Diphenylamine, Pirimicarb, Propyconazole, Pyrimethanil, Fludioxonil, O-phenylphenol, Oxadixyl, Benalaxyl, bitertanol, carfentrazone-ethyl, chorthal-dimethyl, cyproconazole, dichlofop-methyl, difenoconazole, flusilasole, mepanipyrim, mepronil, penconazole, perthane, proquinazid, pyriproxyfen, tebuconazole **Polychlorinated biphenyls (PCBs) :** PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB180 .	**Extraction :** Cold solid/liquid **Purification :** SPE **Analysis :** GC/MS-MS	Internal method MOC3/25

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Oil-rich products **Animal products :** Dairy products Meat products Fats Fish products Egg products	Multi-residue determination of pesticides **Organophosphates:** Chlorfenvinphos, Chlorpyrifos ethyl, Chlorpyrifos methyl, Coumaphos Fenitrothion, Malathion, Methidathion Parathion methyl, Parathion ethyl, Phosalone, Pirimiphos methyl Ethion, Isofenphos methyl Pyridafenthion, Tolclophos methyl **Organochlorines :** 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 **Pyrethroids** : Bifenthrin, Cyfluthrin, Cyhalothrin Cypermethrin, Deltamethrin Fluvalinate, Tefluthrin, Tetramethrin **Organotin / miscellaneous:** Bromopropylate, Propyconazole Fludioxonil, Benalaxyl, Cyprodinil Diflufenican, Flusilasole, Mepronil Metalaxyl, Pirimicarb, Proquinazid, Prosulfocarb, Pyriproxifen	**Extraction** : Cold solid/liquid **Purification :** Dispersive SPE **Analysis:** GC-MS/MS	Internal method MOC3/26

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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

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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, Low water and low fat products High-sugar, low-water products Alcoholic beverages, Fruit and vegetable juices, Sodas	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.	**Extraction:** by solvent **Purification :** Liquid/solid (dispersive SPE) **Analysis:** GC-MS/MS	Internal method MOC3/55
Products of plant origin : Baby food	<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	**Extraction :** Cold solid/liquid **Purification :** Liquid/Solid (SPE) **Analysis:** GC-MS/MS	Internal method MOC3/56

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Baby food	Multi-residue determination of pesticides 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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Non-fatty products of plant origin : Water-rich products Acidic and water-rich products High sugar, low water products Low water, low fat products Alcoholic beverages Fruit and vegetable juices	**Determination of polar residue content** : AMPA Etherephon Fosethyl-Aluminium Glufosinate Glufosinate-N-acetyl Glyphosate Maleic hydrazide Phosphonic acid	**Extraction :** Cold solid/liquid **Purification** : Liquid-solid (SPE) **Analysis:** LC-MS/MS	Internal method MOC3/414
Products of plant origin : Water-rich products Acidic and water-rich products High sugar, low water products Low water, low fat products Alcoholic beverages Fruit and vegetable juices Oil-rich products Spices Aromatic and medicinal plants: Teas, Flowers and Leaves **Animal products :** Meat products Fish products	**Determination of polar residue content** : Chlorate Perchlorates	**Extraction :** Cold solid/liquid **Purification** : Liquid-solid (SPE) **Analysis:** LC-MS/MS	Internal method MOC3/414
Bee products : Honey Royal jelly Pollen Bees	<u>Multi-residue determination of pesticides :</u> 2,4 DDD, 2, 4DDE, DDE4,4, 44 DDT, Alachlor, Bromopropylate, Chlordane (cis+trans), Chlorobenzilate, Chlorpyriphos ethyl, Chlorpyriphos 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.	**Extraction :** Cold solid/liquid **Purification :** Dispersive SPE **Analysis :** GC-MS/MS	Internal method MOC3/76
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**

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Animal products : Meat products Egg products and by-products	**Fipronil, Fipronil sulfone**	**Preparation / Extraction** : Cold solid / liquid **Purification** : SPE **Analysis** : GC-MS/MS	Internal method MOC3/183
Animal products : Meat products Egg products and by-products**.**	**Amitraz** (including metabolites containing the 2,4 dimethylaniline moiety expressed as amitraz)	**Preparation / Extraction :** Hydrolysis Cold solid / liquid **Purification :** Dispersive SPE **Analysis:** LC-MS/MS	Internal method MOC3/184
Original products plant : Water-rich products Acidic and water-rich products Products rich in sugar and low water content Low-calorie products water and fat Alcoholic beverages Fruit and Vegetable juices Sodas	**Multi-residue determination of pesticides** : 6-Benzyladenine, Acephate, Acetamiprid, Ametoctradine, Amidosulfuron, Azaconazole, Azimsulfuron, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Beflubutamide, Bensulfuronmethyl, Benthiavalicarbisopropyl, 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,	**Preparation/ Extraction:** Cold solid / liquid **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/407

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	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, Isoprocarb, Isoprothiolane, Isoproturon, Isopyrazam, Isoxaben, Isoxaflutole, Isoxathion, Kresoxim-methyl, Lenacil, Linuron, Lufenurone, Mandipropamid, MCPA, Mecarbam, Mesosulfuronmethyl, Metaflumizone, Metamitron, Metconazole		
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 Products rich in sugar and low water content Products low in fat and low in water Alcoholic beverages Fruit and Vegetable juices Sodas	Metrafenone, Metsulfuronmethyl, Mevinphos, Monalide, Monocrotophos, Monolinuron, Monuron, NAD(1-naphthyl acetamide), Napropamide, Neburon, Nicosulfuron, Norflurazon, Novaluron, Ofurace, Omethoate, Orthosulfamuron, Oxamyl, Oxasulfuron, Paclobutrazol, Paraoxon-ethyl, Pencycuron, Penflufen, Penoxsulam, Penthiopyrad, Phenmedipham, Phorate sulfone, Phorate-oxon, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Pinoxadene, Pirimicarbdesmethyl, 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, Thiachloprid, thiamethoxam, Thiencarbazone methyl,	**Preparation/ Extraction:** Cold solid / liquid **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/407

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	Thifensulfuron-methyl, Thiobencarb, Thiodicarb, Thionazin, Thiophanatemethyl, Tricyclazole, Trifloxystrobin, Triflumuron, Triflusulfuron-methyl, Triticonazole, Tritosulfuron, Vamidothion, Warfarin		
aromatic and medicinal plants	Acetamiprid, Ametoctradine Azoxystrobin, Benthiavalicarb-isopropyl, Boscalid, Cyflufenamid Difenamide, Emamectin-benzoate b1a, Fenamidone, Fenpyroximate, Imidachloprid, Iprovalicarb, Isoxathion Linuron, Metconazole, Methoxyfenozide Propaquizafop, Pyraclostrobin Spirodiclofen, Tebufenozide Tetraconazole, Trifloxystrobin Triflumuron	**Preparation/ Extraction:** Cold solid / liquid **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/417
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
spices	Acetamiprid, Dimethoate, Ethametsulfuron Imidachloprid, Isoxathion, Metrafenone Paclobutrazol, Pyraclostrobin, Thiacloprid	**Preparation/ Extraction:** Cold solid / liquid **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/427
<u>Products of plant origin</u> 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	2,4-D 2,4,5-T Diclofop Fluazifop Haloxyfop MCPA MCPB Quizalofop	**Extraction :** Solvent **Hydrolysis** : Base **Analysis** : LC-MS/MS	Internal method MOC3/416
Water-rich products Oil-rich products Acidic and water-rich products Products high in sugar and low in water Aromatic and medicinal plants	**Matrine**	**Extraction :** Cold solid/liquid **Purification** : SPE **Analysis** : LC-MS/MS	Internal method MOC3/421

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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 ***Animal products :*** High-fat dairy products	**Ethylene oxide** (sum of ethylene oxide and 2-chloroethanol expressed as ethylene oxide)	**Extraction:** Cold solid / liquid Hydrolysis **Purification** : Dispersive SPE **Analysis**: GC-MS/MS	Internal method MOC3/428

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

***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.*

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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, Edifenphos, Ethametsulfuron-methyl Etrimfos, Fenamiphos sulfoxide, Fensulfothion, Fenthion-sulfon, Fenthion-sulfoxide, Flurtamone, Fosthiazate Heptenophos, Imazamox, Iprobenfos, Isocarbophos Malaoxon, Metalaxyl, Norflurazon, Omethoate, Paraoxon, Phorate-oxon-sulfoxide, Phorate-sulfoxide Phosphamidon, Profenophos, Propachlor, Pyriofenone, Pyroxsulam, Quinmerac,	**Preparation/ Extraction :** Liquid / cold liquid **Analysis:** LC-HRMS	Internal method MOC3/408

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	Sulfotep, Sulfoxaflor Thiacloprid, Thifensulfuron-methyl, Thiodicarb, Vamidothion Zoxamide		
Bergamot and Lemon essential oils	Acephate, Aldicarb, Atrazine-desethyl Bispyribac, BTS 44595 Chlorfenvinphos (E-Z), Chloridazone Cinosulfuron, Dichlorobenzamide Dimethoate, Diphenamid Ditalimfos, Epoxiconazole Ethametsulfuron-methyl Ethidimuron, Ethiofencarb-sulfone Fensulfothion oxon, Fensulfothion Fenthion-sulfoxide, Fenuron Flutolanil, Isazophos, Isocarbophos Mecarbam, Napropamide Omethoate, Phosmet, Sulfoxaflor Thiacloprid, Thiamethoxam Tricyclazole, Zoxamide	**Preparation/ Extraction :** Liquid / cold liquid **Analysis:** LC-HRMS	Internal method MOC3/408

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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

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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 (Shower gel, shampoo, soap, deodorant, hair dye, talc, glycerine, glycol, moisturising cream, 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 (Shower gel, shampoo, soap, deodorant, hair dye, talc, glycerine, glycol, moisturising cream, liniment, cream, foundation, micellar water)	**Allergen testing :** Limonene, Benzyl alcohol, Methyl 2-octynoate, Citronellol, Anise alcohol (4-methoxybenzyl alcohol), Cinnamyl alcohol, Eugenol, Isoeugenol, Coumarin, α-Isomethyl ionone, Butylphenyl methylpropional (Lilial), Amyl cinnamal (α-mylcinnamaldehyde), Hydroxyisohexyl 3-cyclohexene carboxaldehyde (Lyral), Hexyl cinnamal (α-Hexylcinnamaldehyde), Benzyl benzoate (Benzyl benzoate), Amylcinnamyl alcohol (alpha-amylcinnamyl alcohol)	**Extraction :** Cold liquid/liquid Cold solid/liquid **Purification :** SPE **Analysis :** GC-MS/MS	Internal method MOC3/128

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FLEX3 range

General scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 Fish products	Determination of DDAC and LAC content	**Preparation/ Extraction :** Cold solid / liquid **Analysis:** LC-MS-MS	Internal method MOC3/145

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 : 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 **Animal feed** : Flour of animal origin Compound feed Raw materials of plant origin **Animal products:** Dairy products including baby food Egg products Meat products Fish products	Melamine	**Extraction :** Solvent **Analysis :** LC-MS/MS	Internal method MOC3/134

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FIXED range

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 ≥ 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/CI (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.*

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Heavy metals	Scope of accreditation No. 1-1904

FLEX3 range

General scope

#Food / Various foods / Physicochemical 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 microwaves under pressure Open system wet track **Analysis:** ICP/MS LC-ICP/MS IC-ICP/MS

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Detailed scope

#Food / Various foods / Physicochemical 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, Platinium, 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 of which 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 hive Fish products Dairy products of which 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 Fish 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
Fish products Fruit and vegetables Mushrooms	Mercury II HgII, Methylmercury MeHg	**Mineralization :** Wet route (open system acid digestion)	Internal method MOC3/144

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Medicinal plants Food supplements Animal feed		**Analysis:** LC/ICP-MS	
Human food : Cereal products, Fatty products, Egg products, Dairy products, Meat products, Fish 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

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Mycotoxins | Scope of accreditation No. 1-1904

FLEX 3 range

General scope

Food industry / Miscellaneous foods / 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

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Detailed scope

Food industry / Miscellaneous foods / 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, B 2,G1, G2)	**Extraction:** by solvent **Purification :** Immunoaffinity **Analysis:** LC-FLUO with post-column derivation	Internal method MOC3/71

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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), Fumonisins (B+B12, B3), HT 2toxin, T2 toxin, Zearalenone (ZEA), Aflatoxins (B 1,B 2,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	**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 cake	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 Oil 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**

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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

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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

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General scope

Food industry / Miscellaneous foods / 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

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Detailed scope

Food industry / Miscellaneous foods / 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**
Original products plant and animal: Leafy vegetables Cereals and cereal products Aromatic and medicinal plants Food supplements Spices Hive products (Honey, Pollen, Royal Jelly) Liquid teas and infusions for infants and young children.	Echimidine, Echimidine-N-oxide, (Z)-Erucifoline, (Z)-Erucifoline-N-oxide, Europine, Europine-N-oxide, Heliotrine, Heliotrine-N-oxide, Heliosupine, Heliosupine N-oxide, Integerrimine, Intermedine, (Intermedine-N-oxide+Indicine-N-oxide+Echinatine-N-oxide), Jacobine, Jacobine-N-oxide, Lasiocarpine Lasiocarpine-N-oxide, (Lycopsamine+Indicine+Echinatine+ Rinderine) , Lycopsamine-N-oxide, Monocrotaline, Monocrotaline-N-oxide, (Retrorsine+Usaramine), (Retrorsine-N-oxide+Usaramine-N-Oxide), Rinderine-N-oxide, Senecionine, (Senecionine-N-oxide+Integerrimine-N-oxide), Senkirkine, (Seneciphylline+Spartioidine), (Seneciphylline-N-oxide+ Spartioidine N-oxide), Senecivernine, Senecivernine-N-oxide, Trichodesmin	**Preparation/Extraction :** By solvent **Purification :** SPE **Analysis:** LC-MS/MS	Internal method MOC3/123

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GMO	Scope of accreditation No. 1-1904

FLEX3 range

General scope

Agri-food / Plants / Molecular genetics	Analyses related to genetically modified organisms - GMOs	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Raw products **Processed products** **Cereal products** **Sweetened and sugared products** **Animal feed**	**Maize** 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 products **Processed products** **Cereal products** **Sweetened and sugared products** **Animal feed**	**Soya** 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 products (seeds, grains, flour, etc.) **Processed products** **Cereal products** **Sweetened and sugared products** **Animal feed**	**Rape** 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

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Detailed scope

Agri-food / 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 ISO21569 , 24276and 2157021571 and their respective amendments on MON 810, GA21, NK and603 MON 863 MOC/3103
Plant species Maize	GMO sequence-specific PCR target PS screening35	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 ISO21569 , 24276and 2157021571 and their respective amendments on MON 810, NK 603 and MY 863 MOC/3103
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 ISO21569 , 24276and 2157021571 and their respective amendments on maize, GA21, NK60 3 and MON 863 MOC/3103

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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 ISO21569 , 24276and 2157021571 and their respective amendments on MON 863 MOC/3103
Plant species Maize	GMO sequence specific PCR target NK specific event identification603	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 ISO21569 , 24276and 2157021571 and their respective amendments on NK maize603 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	Qualitative	Homogenisation/ crushing Manual DNA extraction by silica column adsorption or semi-automated	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective

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

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		Cereal products, Sweetened and sugared products, Animal feed		DNA extraction by magnetic beads Real-time PCR	
Plant species 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
Plant species 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
Plant species 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
Plant species 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
Plant species Maize	GMO sequence specific PCR target Event specific identification: Mon87427	Raw maize products (seeds, grains, flour...) Processed products Cereal products, Sweetened and	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

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		sugared products, Animal feed			
Plant species 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
Plant species 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
Plant species 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
Plant species 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 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

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Plant species Maize	GMO sequence specific PCR target Event specific identification: MZHGJG0	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
Plant species 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
Plant species 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

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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 ISO21569 , 24276and 2157021571 and their respective amendments on soybeans RRS, *RRS2* MOC/3103
Plant species Soya	GMO sequence-specific PCR target PS screening35	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 ISO21569 , 24276and 2157021571 and their respective amendments on soybean *RHA* 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 ISO21569 , 24276and 2157021571 and their respective amendments on soybean *RHA* 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 ISO21569 , 24276and 2157021571 and their respective amendments on soybean RHA 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	Internal method adapted from standards NF EN ISO 21569, 24276, 21570 and 21571 and their respective

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		sugared products, Animal feed		by magnetic beads Real-time PCR	amendments on soybean RRS2 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

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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
Plant species 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
Plant species 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
Plant species 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
Plant species 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

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Plant species Soya	GMO sequence specific PCR target Event specific identification GMB151	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

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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 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 : MS1	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

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		products, Animal feed			
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/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 : RF1	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 : RF3	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 : 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

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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 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

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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** **Nutrition products**	Detection of target DNA sequence of a plant or animal species (species identification or allergy-prone) detection Simplex or duplex	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.*

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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** **Nutrition 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** **Nutrition 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)

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Spices: turmeric and paprika **Compound feed** **Baby food** **Nutrition products** **Sweetened and sugared products**			Real-time PCR amplification
Raw cereal products **Processed cereal products** **Fruit and vegetables** **Fatty products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Sweetened and sugared products**	Specific target DNA sequence of : **almond**: prunin 1 precursor	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** **Fatty products**: sunflower oil and butter **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion**: tea and jasmine flower **Sweetened and sugared products**	Specific target DNA sequence of : **peanut**: Arah gene1	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** **Fatty products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Sweetened products:** cake and cake mix	Specific target DNA sequence of : **sesame**: 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

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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** **Diet foproducts** **Sweetened and sugared products**	Specific target DNA sequence of : **pecan** : 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** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Compound feed** **Baby food** **Nutrition products** **Sweetened and sugared products**	Specific target DNA sequence of : **soybean**: lectin	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** **Fatty products** **Alcoholic beverages** **Coffee, tea, infusion** **Baby food** **Sweetened and sugared products**	Specific target DNA sequence of : **lupin**: conglutin alpha mRNA	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** **Alcoholic beverages:** beer and brandy **Non-alcoholic beverages** **Spices**	Specific target DNA sequence of : **celery**: ribosomal RNA	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

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Compound feed **Baby food** **Sweetened and sugared products**			
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**	Specific target DNA sequence of : **Brazil nuts** : 2S albumin (ber e1)	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 grain products: soybeans and barley **Processed cereal products** **Fruit and vegetables** **Sweetened and sugared products**	Specific target DNA sequence of : the **pistachio**: COR gene dehydrin	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** **Nutrition products** **Sweetened products:** chocolate powder	Specific target DNA sequence of : **Macadamia nut**: vicillin precursor	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

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** **Nutrition 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** **Nutrition 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** **Nutrition 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
Raw Cereal Products **Processed grain products** **Alcoholic beverages** **Non-alcoholic beverages** **Compound foods**	**Fish-specific** target DNA sequence: 18S RNA	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 : IC3/01-01.D DNA extraction : NucleoSpin®Plant II or NucleoMag®Plant II (Macherey-Nagel) Real time PCR amplification

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FLEX3 range

General scope

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

***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.*

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Detailed scope

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

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD

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Fish products : Fresh and canned fish **Alcoholic beverages :** Wine	Histamine detection	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)

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

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

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

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Dried fruit **Dietary food, diet and special food:** Soy yoghurt			
Cereal products Cornflour, Soya, Quinoa, Wheat semolina, Pastry mix, Mini plum, Cookies, Madeleine ***Sweet products*** Jam, Tagada candy, Glucose syrup, Honey ***Dairy products*** Plain yoghurt, Tesco Vanilla, Fresh goat cheese ***Spices and herbs*** Mustard seed, Nutmeg, Pepper, Garlic ***Dried fruit*** **Dietary food, diet and special food:** Soy yoghurt	Detection and quantification of pistachio	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/195 Supplier kit : Pistachio PIS-E01 (LIBIOS, Immunolab)
Cereal products (raw and primary processing) : Maize, round rice, quinoa, teff flour **Processed cereals** : Pastry mix, mini plum cake, cookies, madeleines **Spices :** Mustard seed, cumin, coriander seed, paprika **Sweeteners**: jam, tagada candy, glucose syrup, honey **Dairy products**: plain yoghurt, Tesco cream dessert, fresh goat's cheese **Dietary food, diet and special food:**	Detection and quantification of lupin	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/590 Supplier kit : R6102 RIDASCREEN Fast Lupine / (R-BIOPHARM)

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Soy yoghurt			
Cereal products (raw and primary processing) : Maize, round rice, quinoa, teff flour **Processed cereals** : Pastry mix, mini plum cake, cookies, madeleines **Spices :** Mustard seed, paprika, nutmeg, pepper **Sweeteners** : Jam, tagada candy, glucose syrup, honey **Dairy products** : plain yoghurt, Tesco cream dessert, fresh goat's cheese **Dietary food, diet and special food:** Soy yoghurt	Detection and quantification of peanuts	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/591 Supplier kit : R6202 RIDASCREEN Fast Peanut / (R-BIOPHARM))
Cereal products (raw and primary processing) : Maize, round rice, quinoa, teff flour **Processed cereal products :** Pastry mix, mini plum cake, cookies, madeleines **Spices :** Mustard seed, paprika, nutmeg, pepper **Sweeteners :** Milk jam, tagada candy, glucose syrup, honey **Dairy products :** Chocolate yoghurt, plain yoghurt, mango yoghurt, fresh goat cheese	Detection and quantification of cashew nuts	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/592 Supplier kit : R6872 RIDASCREEN Fast Cashew (R-BIOPHARM)

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Dried fruit : Nuts, hazelnuts, peanuts, macadamia nuts			
Cereal products (raw and primary processing) : Maize, rapeseed, wheat, rapeseed meal, split pea flour, split pea fibre, split pea starch and split pea protein	Detection and quantification of soybeans	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/585 Supplier kit : NutriLinia Soy-E ELISA NC-6011/96 Novakits

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Contaminants from packaging and materials | Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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.*

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 Products high in sugar and low in water Low water and low fat products Alcoholic beverages Fruit and vegetable juices Sodas **Animal products** : Dairy products of which baby food	Bisphenol A	**Extraction :** Cold solid/liquid **Purification:** SPE **Analysis:** LC-MS/MS	Internal method MOC3/62
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 **Products of animal origin :** Processed egg products (egg pasta, madeleine, pancakes)	Determination of the content of saturated mineral oils (**MOSH**) and aromatic oils (**MOAH**)	**Preparation:** Cold solid/liquid or Liquid/cold liquid **Analysis :** LC/GC-FID	Internal method MOC3/174

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin : Alcoholic beverages, Oils	**Determination of Phthalates and other plasticisers :** - 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)	**Extraction :** Liquid / cold liquid **Analysis:** GC-MS-MS	Internal method MOC3/137

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Neoformed contaminants	Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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:** by solvent **Purification:** Liquid-Solid (SPE) **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

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Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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

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Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 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 **Original products animal :** Products of the hive, Dairy products, Meat products, Fish products, Fats **Animal feed :** Animal feed **Miscellaneous :** Cocoa	<u>Aromatic hydrocarbons polycyclic :</u> Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Chrysene.	**Preparation / Extraction :** Cold solid / liquid **Purification:** SPE **Analysis:** GC-MS/MS	Internal method MOC3/23
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 **Animal products** : Meat products Fish products Milk, yoghurt	Determination of Acrylamide content	**Extraction :** Cold solid/liquid **Purification:** SPE **Analysis:** LC-MS/MS	Internal method MOC3/129

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Dioxins and PCBs | Scope of accreditation No. 1-1904

FIXED range

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 : Oil-rich products Water-rich products Acidic and water-rich products Products rich in sugar and low water content Low water and energy products fat Baby food Miscellaneous products: spices, coffee, tea, aromatic plants and medicinal **Animal products :** Dairy products (cheese, soft and hard cheeses) Egg products Meat products Fish products Baby food **Animal feed** : Flours of animal origin Compound feed Original raw materials plant Mineral compounds	<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 <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, <u>PCB "dioxin like":</u> PCB77, PCB81, PCB 126,PCB169, PCB105, PCB114, PCB118, 123,PCB156, PCB PCB157, PCB167, PCB189 <u>Non-dioxin like PCBs (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB PCB153,180	**Extraction :** Under hot pressure (IEP) **Purification:** SPE **Analysis :** GC-HRMS Isotope dilution	Internal method MOC3/130

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Products of plant origin: Oil-rich products (vegetable oils) Alcoholic beverages Fruit and vegetable juices Soda **Animal products:** Dairy products (milk, yoghurt, high fat products) Fats Baby food **Animal feed :** Fats	<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, <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, <u>PCB "dioxin like":</u> PCB77, PCB81, PCB 126,PCB169, PCB105, PCB114, PCB118, 123,PCB156, PCB PCB157, PCB167, PCB189 <u>Non-dioxin like PCBs (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB PCB153,180	**Extraction :** Liquid-Liquid **Purification:** SPE **Analysis :** GC-HRMS Isotope dilution	Internal method MOC3/131

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.*

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FLEX3 range

General scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and organic products 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.*

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Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and organic products 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 : 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 **Animal products :** Dairy products (cheeses, pasta soft and hard cheeses) Egg products Meat products Fish products Baby food **Animal feed :** Flours of animal origin Compound feed Mineral compounds Raw materials of plant origin	<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 <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 <u>PCB "dioxin like" :</u> PCB77, PCB81, PCB126, PCB169, PCB105, PCB114, PCB118, PCB123, PCB156, PCB157, PCB167, PCB189 <u>Non-dioxin like PCBs (indicators) :</u> PCB28, PCB52, PCB101, PCB138, PCB 153, PCB180	**Preparation / Extraction :** solid/liquid cold solid/liquid hot **Purification:** SPE **Analysis :** GC-MS/MS Isotope dilution	Internal method MOC3/180
	Polychlorinated dibenzo-p-dioxins (PCDD) : 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD,	**Preparation / Extraction** : Cold liquid/liquid **Purification:**	

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

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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 **Organic products of animal origin**	Veterinary drug residues	**Preparation:** Solvent extraction Hydrolysis Bypass **Purification :** Dispersive SPE SPE **Analysis :** LC-MS/MS LC-HRMS

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Detailed scope

#Food / Various foods / Physico-chemical 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 Fish products : fish, shellfish, crustaceans	Chloramphenicol	**Preparation:** Solvent extraction **Purification:** dispersive SPE **Analysis:** LC-MS/MS	Internal method MOC3/147
Muscles, Fish 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

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#Food / Various foods / Physico-chemical 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 Fish products	Determination of nitrofurans : AHD (1-Aminohydantoin) AMOZ (3-Amino-5-morpholinomethyl-2-oxazolidinone) AOZ (3-amino-2-oxazolidinone) SEM (Semicarbazide) DNSH (3,5-Dinitrosalicyhydrazide)	**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

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Honey	Determination of **sulfonamides:** dapsone, Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine, Sulfaclozine.sulfachloropyrazine, Sulfadiazine, Sulfadimethoxine, Sulfadimidine, Sulfadoxine, Sulfaethoxypyridazine, Sulfaguanidine, Sulfamerazine, Sulfameter.Sulfamethoxydiazine, Sulfamethizole, Sulfamethoxazole, Sulfamethoxypyridazine, Sulfamonomethoxine, Sulfamoxole, Sulfaphenazole, Sulfapyridine, Sulfaquinoxaline, Sulfasalazine, Sulfathiazole, Sulfatroxazole, Sulfisomidine, Sulfisoxazole, Sulfafurazole, Sulfisozole	**Preparation**: Solvent extraction **Purification:** SPE **Analysis** : LC-MS/MS	Internal method MOC3/458
Eggs Muscles Milk Fish products Honey	Determination of **nitroimidazoles** : Ronidazole Metronidazole Ipronidazole Dimetridazole Ternidazole Secnidazole Tinidazole and metabolites (2-hydroxy-metronidazole, 2-hydroxy-ipronidazole, HMMNI (2-hydroxy-dimetridazole))	**Preparation**: Solvent extraction **Analysis** : LC-MS/MS	Internal method MOC3/456

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Food colourings | Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food industry / 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 25/60-61-8-1180
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Human nutrition	Determination of dye content	**Preparation:** Solvent extraction **Analysis :** LC-MS/MS UFLC-DAD

***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

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Food industry / 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 25/60-61-8-1180	
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 Fish 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.*

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Nutritional values | Scope of accreditation No. 1-1904

FLEX3 range

General scope

Food industry / 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**
Human food **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.*

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Detailed scope

Food industry / 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**
Human food : Fruit and vegetables Compound feed Dairy products Fatty products Sweetened and sugared products Cereal products Egg products Meat products Fish 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

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FLEX3 range

General scope

Food industry / 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**
Human food	Determination of carbohydrate components	**Preparation:** Water extraction **Analysis :** Ion Chromatography / Pulsed Amperometry

***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 industry / 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**
Human food : Fruit and vegetables Compound feed Dairy products Sweetened and sugared products Cereal products Dietary foods	Determination of Fructose, Glucose, Lactose, Maltose, Sucrose	**Preparation:** Water extraction **Analysis :** Ion Chromatography / Pulsed Amperometry	Internal method MOC3/168

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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**
Human food	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

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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

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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**
Human food : Fruits and vegetablesDietetic foodsDietary foodsSpecial foods Spices and condiments Dairy products Meat products Fish products Sweetened productsCoffee , 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
Human food : 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

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Agri-food / 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**
Fish 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

Agri-food / 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.*

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Range FLEX1

Agri-food / 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.*

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FLEX3 range

General scope

Food industry / 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 25/6082

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Human food	Determination of acid number and acidity	Titrimetry

Detailed scope

Agri-food / 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 25/6082

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

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Range FLEX1

Agri-food / 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.*

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FLEX3 range

General scope

Food industry / 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**
Human food	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

Agri-food / 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

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FLEX3 range

General scope

Food industry / 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**
Human food **Animal feed**	Determination of total lipid content	**Preparation:** Acid hydrolysis Microwave hydrolysis Solvent extraction Microwave extraction **Analysis:** Gravimetry

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Detailed scope

Food industry / 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**
Human food : 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
Human food : Fruit and vegetables Compound feed Dietary foods Cereal products Dairy products Meat products/Fish 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

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FLEX3 range

General scope

Food industry / 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**
Human food **Animal feed**	Determination of total nitrogen content	**Kjeldahl :** Mineralization Distillation Titrimetry

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Detailed scope

Food industry / 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**
Human food : 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

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FLEX3 range

General scope

Food industry / 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**
Human food **Animal feed**	Determination of humidity	Desiccation Gravimetry
	Determination of ash content	Dry mineralisation Gravimetry

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Detailed scope

Food industry / 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**
Human food : 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	Drying Gravimetry	Internal method MOC3/150
Human food : 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

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FLEX3 range

General scope

Food industry / 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 human food - LAB GTA 25/60-118
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Human food	Determination of sulphite content	**Preparation:** Solid / liquid extraction Bypass **Purification :** Liquid/solid extraction (SPE) **Analysis :** LC-MS/MS

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Detailed scope

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Food industry / 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 human food - 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

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Norovirus and Hepatitis A | Scope of accreditation No. 1 -1904

FLEX3 range

General scope

Food industry / 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.*

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Detailed scope

Food industry / 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**
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

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Food microbiology	Scope of accreditation No. 1 -6066

FLEX range1

Food industry / Miscellaneous foods / Sampling	Sampling of agri-food items - LAB GTA 59		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Surface of the environment of the food chain	Samples for microbiological microbiological analysis	Instantaneous sampling of surface by means of contact boxes, swabs, sponges and wipes	NF EN ISO 18593

[1] The laboratory has met the requirements for sampling objects for testing within its scope of accreditation.

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

FIXED range

Food industry / Miscellaneous foods / Sampling	Sampling of agri-food items - LAB GTA 59		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Agri-food products excluding carcasses and frozen products in bread	Samples for microbiological microbiological analysis	Instantaneous withdrawal	Internal method MOC3/291

FIXED SCOPE: *The laboratory is recognised as competent to carry out sampling in strict accordance with the methods mentioned in*
the scope of accreditation. Technical modifications of the procedure are not allowed.

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Range FLEX1

Food industry / 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 agri-food 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 agri-food sector	Enterobacteriaceae	Colony count at 37°C (or 30°C)	NF ISO 21528-2
All food and feed products and samples from the production environment	Enterobacteriaceae	Colony count at 37°C	BRD 07/24-11/13
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Coliforms	Search and enumeration by MPN technique at 30°C (or 37°C)	NF ISO 4831
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Coliforms	Colony count at 30°C (or 37°C)	NF ISO 4832
Products intended for human consumption or animal feed	Thermotolerant coliforms	Enumeration of colonies at 44°C	NF V08-060
Products intended for human consumption or animal feed	*Escherichia coli* - 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 *E.coli* 2	BRD 07/08-12/04
All food and feed products	*Escherichia coli* -β-glucuronidase positive	Colony count at 37°C by RAPID chromogenic medium *E.coli* 2	BRD 07/07-12/04

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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	*Escherichia coli* - 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	*Escherichia coli 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	*Escherichia coli O157*	Enzyme-linked immunosorbent assay (ELFA) VIDAS® UP E.coli O157 including H7 (VIDAS ECPT) automated system	BIO 12/25-05/09
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Suspected Escherichia coli	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 agri-food sector	Coagulase positive staphylococci	Search and enumeration by MPN technique for small numbers	NF EN ISO 6888-3

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

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'*Staph* 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 agri-food 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 agri-food sector	*Clostridium perfringens*	Colony count at 37°C and confirmation	NF EN ISO 7937
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	Presumptive *Bacillus cereus*	Colony count at 30°C	NF EN ISO 7932
All food and feed products	Presumptive *Bacillus cereus*	Enumeration at 30°C by Compass® chromogenic medium Bacillus cereus 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	*Pseudomonas spp*	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	*Listeria monocytogenes and Listeria spp*	Colony count at 37°C and confirmation	NF EN ISO 11290-2
All food products and environmental samples	*Listeria monocytogenes and Listeria spp*	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 agri-food sector	*Salmonella spp. including Salmonella Typhi and Salmonella Paratyphi*	Search Isolation / Identification and confirmation	NF EN ISO 6579-1
All food and feed products and samples from the production environment	*Salmonella*	RAPID chromogenic medium search Salmonella	BRD 07/11-12/05
All food and feed products and environmental samples (excluding livestock environment)	Salmonella spp	IQ-Check Salmonella 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	*Listeria monocytogenes and Listeria spp*	Search Isolation / Identification and confirmation	NF EN ISO 11290-1

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Food products and environmental samples	*Listeria monocytogenes and Listeria spp.*	Research at 37°C by chromogenic medium ALOA ONE DAY™	AES 10/03-09/00
Products intended for human consumption or animal feed, environmental samples from the agri-food sector	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.

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