INTERNAL TECHNICAL ANNEX
AGRIFOOD DEPARTMENT
PHYTOCONTROL ANALYTICS France

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References:

Cofrac Technical Annex N° **1-1904 rev. 35**

PHYTOCONTROL LABORATORY

Georges Besse II Science Park

180 Philippe Maupas Street

30035 NIMES,

under accreditation number 1-1904

BIOTECHNOLOGIES UNIT

ANALYTICAL CHEMISTRY UNIT

MICROBIOLOGY UNIT

Phytocontrol Analytics France, Parc Scientifique Georges Besse II - 180 rue Philippe Maupas - 30035 Nîmes - France
Tel. +33 (0)4 34 14 70 00 - Fax +33 (0)4 66 23 99 95 - www.phytocontrol.com - contact@phytocontrol.com
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Pesticide residues	Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Products of plant origin **Animal products** **Animal feed**	Pesticide residues	**Extraction:** Cold solid-liquid Hydrolysis **Purification:** SPE Dispersive SPE **Analysis:** LC/MS-MS, GC/MS-MS, GC-MS

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

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Phytocontrol AGRIFOOD

Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Original products plant and animal: Products rich in water, Products rich in oil, Acidic and water-rich products, Products high in sugar and low in water, Products low in water and fat, 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 origin plant : Water-rich products Products rich in starch, protein 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 Products rich in starch, protein 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 : 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 Products rich in starch, protein 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 Products high in sugar and low in water Alcoholic beverages, Fruit and vegetable juices, Infant 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, 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
Plant-based products : Water-rich products Acidic products rich in water Products rich in sugar and low in water , including sugar Products low in water and fat Alcoholic drinks Fruit and vegetable juices Sodas	1,4-Dimethylnaphthalene, 4,4-Dichlorobenzophenone, 4-4''DDT, 4-4'DDE, Acetochlor, Acibenzolar-S-methyl, Alachlor, Benalaxyl, Benfluralin, Benoxacor, Bifenthrin, Bitertanol, Bromocyclen, Bromopropylate, Butachlor, Carfentrazone- ethyl, Chlorbenside, Chlorfenson, Chlorfenvinphos, Chlorobenzylate, Chlorpropham, Chlorpyriphos ethyl, Chlorpyriphos-methyl, Chorthal-dimethyl, Clomazone, Cyhalofop-butyl, Cyhalothrin, Cypermethrin, Cyproconazole, Cyprodinil, Demeton-S-methyl, Dichlofop-methyl, Dichlorfenthion, Difenoconazole, Diflufenican, Diphenylamine, EPN, Ethion, Ethofumesate, Ethoprofos, Etofenprox, Fenarimol, Fenazaquin, Fenchlorfos, Fenhexamide, Fenobucarb, Fenpropathrin, Fenpropimorph, Fenvalerate, Flucythrinate, Fludioxonil, Flufenacet, Fluopicolide, Flurochloridone, Fluroxypyr-methylheptyl ester, Flusilasole, Fonofos,, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl(R+S),	**Extraction:** Cold solid/liquid **Purification :** Liquid/solid (dispersive SPE) **Analysis:** GC-MS/MS	Internal method MOC3/475

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	Hcb, Hch alpha, Hch beta, Hch delta, Heptachlor epoxide cis-, Heptenophos, Hexazinone, Isofenphos methyl, Isofenphos-ethyl, Isoxadifen-ethyl, Malathion, Mepanipyrim, Mepronil, Metolachlore, Mirex, Myclobutanil, Nitrofene, O-phenylphenol, Oxadiazon, Oxadixyl, Parathion methyl, Parathion-ethyl, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 28, PCB 52, Penconazole, Pentachloroanisole, Permethrin, Perthane, Phosalone, Piperonyl Butoxide, Pirimicarb, Pirimiphos methyl, Procymidone, Propachlore, Propyconazole, Propyzamide, Proquinazid, Pyrazophos, Pyridaben, Pyrimethanil, Pyriproxyfen, Quizalofop-ethyl, Sulfotep, Tebuconazole, Tebufenpyrad, Tebupirimphos, Tefluthrin, Terbufos, Terbuthylazine, Tetradifon, Tetramethrin, Tolclophos methyl, Transfluthrin, Triadimefon, Triadimenol, Triallate, Triazophos, Trichloronat, Valifenalate, Vinchlozoline, Zoxamide		

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Aromatic and medicinal plants	Bendiocarb, Dichlobenil, Fluazifop-p-butyl, Bifenthrine, Etofenprox, Flucythrinate, Bifertanol, Famoxadone, Malathion, Chlorfenson, Fenobucarbe, Phosalone, Deltamethrine, Fenpropimorphe, Sulprofos	**Extraction:** Cold solid/liquid **Purification :** Liquid/Solid (SPE) **Analysis:** GC-MS/MS	Internal method MOC3/485
Spices	Ethoprophos, Flufenacet, Isofenphos-Methyl, Perthane, Phosalone	**Extraction:** Cold solid/liquid **Purification :** Liquid/Solid (SPE) **Analysis:** GC-MS/MS	Internal method MOC3/495
Products of plant origin : Infant 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 : Infant 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 foods	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-Aluminum 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 Low-water, low-fat products High-oil products Spices Aromatic and medicinal plants: Teas, flowers, and leaves Alcoholic beverages Fruit and vegetable juices **Animal products:** Meat products Seafood Dairy products: liquid and powdered milk, and liquid and powdered whey	Determination of Perchlorate and Chlorate content	**Extraction:** Cold solid/liquid **Analysis:** LC-MS/MS	Internal method MOC3/120

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
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 Epephon 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 the hive : Honey Royal Jelly Pollen Bees	<u>Multi-residue determination of pesticides :</u> 2.4 DDD, 2.4 DDE, 4.4 DDE, 4,4 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
Animal products : Meat products Egg products and by-products	**Fipronil, Fipronil sulfone**	**Preparation / Extraction** : Solid / liquid when cold **Purification** : SPE **Analysis**: GC-MS/MS	Internal method MOC3/183

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Animal products : Meat products Egg products and by-products**.**	**Amitraz** (including metabolites containing the 2,4 dimethylaniline moiety expressed as amitraz)	**Preparation / Extraction :** Hydrolysis Solid / liquid when cold **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 in water Low-calorie products water and fat Alcoholic beverages Fruit juice and Vegetables Sodas	**Multi-residue determination of Pesticides** : 6-Benzyladenine, Acephate, Acetamipride, Ametoctradine, Amidosulfuron, Azaconazole, Azimsulfuron, Azinphos-ethyl, Azinphos-methyl, Azoxystrobine, Beflubutamide, Bensulfuronmethyl, Benthiavalicarbisopropyl, Bixafen, Boscalide, Bromacil, Bromfenvinphos ethyl, Bromuconazole, Bupirimate, Buprofezin, Buturon, Butylate, Cadusafos, Carbendazim, Carbetamide, Carboxine, Chlorantraniliprole, Chlorfluazuron, Chloridazon, Chlorotoluron, Chloroxuron, Chlorsulfuron, Chromafenozide, Cinidonethyl, Cinosulfuron, Clethodim-sulfoxide, Clofentezine, Clothianidine, Cyanazine, Cyantraniliprole, Cyazofamide, Cycluron, Cyflufenamid, Cymoxanil, Cyprosulfamide, Demeton-S, Demeton-S-methylsulfone, Demeton-S-methylsulfoxide, Desmetryn, Diazinon, Difenamide, Diflubenzuron, Dimethenamid- P, Dimethoate, Dimethomorphe, Dimoxystrobine, Dinoseb, Dinoterb, Disulfoton-sulfone, Disulfoton-sulfoxide, Diuron,DMST, Dodemorphe, Dodine, Emamectine-benzoate B1a, Emamectine-benzoate B1b, Epoxiconazole, Ethametsulfuron-methyl, Ethidimuron, Ethiprole, Ethirimol, Etoxazole, Fenamidone, Fenamiphos sulfone, Fenamiphossulfoxide, Fenbuconazole, Fenchlorphos oxon, Fenoxaprop-ethyl, Fenoxycarbe, Fenpropidine, Fenpyramazine, Fenpyroximate, Fensulfothion, Fensulfothionoxon, Fensulfothion-oxonsulfone, Fensulfothionsulfone, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenuron, Florasulam, Fluazinam, Flufenoxuron, Fluindapyr, Fluometuron, Fluopyram, Fluoxastrobine, Flupyradifurone, Flupyrsulfuron methyl, Fluquinconazole, Flurprimidol, Flurtamone, Fluxapyroxad, Foramsulfuron, Forchlorfenuron, Fosthiazate, Fuberidazole, Furametpyr, Halauxifen methyl, Halfenprox, Halosulfuronmethyl, Hexythiazox, Hydramethylnon, Imazalil, Imazamethabenz methyl, Imazamox, Imazaquin, Imazosulfuron, Imidachlopride, Indoxacarb, Iodosulfuronmethyl, Ioxynil, Iprovalicarbe, Isazofos, Isocarbophos, Isofetamid, Isoprocarb, Isoprothiolane, Isoproturon, Isopyrazam, Isouron, Isoxaben, Isoxaflutole, Isoxathion, Karanjin,	**Preparation/Extraction:** Solid / liquid when cold **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/407

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	Kresoxim-methyl, Lenacil, Linuron, Lufenurone, Mandestrobine, Mandipropamide, MCPA, Mecarbam, Mesosulfuronmethyl, Metaflumizone, Metamitron, Metconazole, Methabenzthiazuron, Methomyl, Methoxyfenozide, Metobromuron, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metsulfuronmethyl, Mevinphos, Monalide, Monocrotophos, Monolinuron, Monuron, NAD(1-naphtyl acetamide), Napropamide, Neburon, Nicosulfuron, Norflurazon, Novaluron, Nuarimol, Ofurace, Omethoate, Orthosulfamuron, Oxamyl, Oxasulfuron, Oxathiapiprolin, Paclobutrazol, Paraoxon-ethyl, Pencycuron, Penflufen, Penoxsulame, Penthiopyrad, Phenmediphame, Phorate sulfone, Phorate-oxon, Phosphamidon, Phoxim, Picolinafen, Picoxystrobine, Pinoxadene, Pirimicarbdesmethyl, Promecarb, Prometon, Propamocarbe, Propaphos, Propaquizafop, Propargite, Propoxur, Prothioconazoledesthio, Pydiflumetofen, Pyracarbolide, Pyraclofos, Pyraclostrobine, Pyraflufenethyl, Pyrimidifen, Pyriofenone, Pyroquilon, Pyroxsulam, Rimsulfuron, Rotenone, Sedaxane, Siduron, Silthiofam, Simazine, Simetryn, 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, Thiachlopride, thiamethoxam, Thiencarbazone methyl, Sedaxane, Siduron, Silthiofam, Simazine, Simetryn, Thifensulfuron-methyl,Thiobencarb, Thiodicarb, Thionazin, Thiophanatemethyl, Tolfenpyrad, Tricyclazole, Trifloxystrobine, Triflumuron, Triflusulfuron-methyl, Triticonazole, Tritosulfuron, Uniconazole, Vamidothion, Warfarin		

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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:** Solid / liquid when cold **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:** Solid / liquid when cold **Purification**: SPE **Analysis**: LC-MS/MS	Internal method MOC3/427
Products of plant origin Water-rich products Acidic and water-rich products Products high in sugar and low in water Low water and low fat products Fruit and vegetable juices Alcoholic beverages Sodas	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 : nuts and oilseeds Products high in sugar and low in water Low water and low fat products Spices Aromatic and medicinal plants Plant extracts (except hibiscus) ***Animal products :*** High-fat dairy products	**Ethylene oxide and 2-chloroethanol**	**Extraction:** Solid Headspace **Analysis**: GC-MS/MS	Internal method MOC3/428

Range FLEX3

General scope*

Chemical and biological products/ Bio-active products/ Physico-chemical analysis	Physico-chemical method: medicinal and aromatic plants	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Essential oils of Citrus	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 method: 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, Sulfotep, Sulfoxaflor Thiacloprid, Thifensulfuron-methyl, Thiodicarb, Vamidothion Zoxamide	**Preparation/Extraction :** Liquid / cold liquid **Analysis:** LC-HRMS	Internal method MOC3/408
Essential oils of Bergamot and Lemon	Acephate, Aldicarb, Atrazine-desethyl Bispyribac, BTS 44595 Chlorfenvinphos (E-Z), Chloridazone Cinosulfuron, Dichlorobenzamide Dimethoate, Diphenamid Ditalimfos, Epoxiconazole Ethametsulfuron-methyl Ethidimuron, Ethiofencarb-sulfone Fensulfothion oxon, Fensulfothion Fenthion-sulfoxide, Fenuron Flutolanil, Isazophos, Isocarbophos Mecarbam, Napropamide Omethoate, Phosmet, Sulfoxaflor Thiacloprid, Thiamethoxam Tricyclazole, Zoxamide	**Preparation/Extraction :** Liquid / cold liquid **Analysis:** LC-HRMS	Internal method MOC3/408

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General scope*

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

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

Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin : Water-rich products, Acidic and water-rich products, Alcoholic beverages, Products high in sugar and low in water, Low water content products and fat, Fruit and vegetable juices, Sodas **Animal products :** Dairy products Meat products Fish products	Determination of DDAC and LAC content	**Preparation/Extraction :** Solid / liquid when cold **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 biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin : Products rich in oil Products low in water and fat (cereals and derived products, fruit and vegetable powders) Fruit and vegetable juices Alcoholic beverages Products high in sugar and low in water **Animal feed** : Flour of animal origin Compound foods 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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Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin : Water-rich products (Water content ≥ 60%) Oil-rich products Acidic and water-rich products Sugar-rich products and low water Miscellaneous products Alcoholic beverages Fruit and vegetable juices Sodas **Animal products :** Dairy products	Determination of nitrate, nitrite, chloride, bromide content	**Preparation / Extraction:** Water **Analysis:** HPLC/CI (conductimetry)	Internal method MOC3/02

Fixed scope: *The laboratory is recognised as competent to carry out the tests strictly in accordance with the methods mentioned in the scope of accreditation. Technical changes to the procedures are not permitted.*

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PFAS | Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

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

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

Detailed scope

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Plant-based products : Water-rich products Acidic products rich in water Products rich in sugar and low in water, including sugar Cereals and derived products Wines, spirits, ciders **Animal products :** Dairy products Meat products Fishery products Egg products	***Determination of the content of perfluoroalkyl compounds (PFAS):*** *Perfluorohexane sulphonic acid (PFHxS)* *Perfluorooctane sulphonic acid (PFOS)* *Perfluorooctanoic acid (PFOA)* *Perfluorononanoic acid (PFNA)*	Preparation/Extraction : Cold solid/liquid Purification : SPE Analysis : LC-MS-MS	Internal method MOC3/465
Plant-based products : Alcoholic beverages Fruit and vegetable juices Sodas	***Determination of the content of trifluoroacetic acid (TFA)***	Preparation: Dilution Purification : SPE Analysis : LC-MS-MS	Internal method MOC3/478

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Heavy metals | Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

#Agroalimentaire / Miscellaneous 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 microwave under pressure Open system wet process **Analysis:** ICP/MS LC-ICP/MS IC-ICP/MS ICP-AES

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Detailed scope

#Agroalimentaire / Miscellaneous 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**
Human Food Animal Feed: raw materials and complete or complementary feed mixtures	Arsenic, Lead, Cadmium, Mercury, Antimony, Barium, Boron, Chromium, Cobalt, Copper, Tin, Manganese, Molybdenum, Nickel, Lithium, Thallium, Vanadium, Iron, Zinc, Selenium	**Mineralization :** Wet process (microwave digestion in a closed system) Wet process (open system digestion) **Analysis:** ICP-MS	Internal method MOC3/85
Human Food Animal Feed: raw materials and complete or complementary feed mixtures	Iridium, Palladium, Platinum, Rhodium, Ruthenium	**Mineralization:** Wet method (microwave digestion in a closed system) Wet method (digestion in an open system) **Analysis:** ICP-MS	Internal method MOC3/483
Dairy products of which baby food	Aluminium	**Mineralization :** Wet process (microwave digestion in a closed system) Wet process (acid digestion in open system) **Analysis:** ICP-MS	Internal method MOC3/85
Cereals Fruits 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 process (acid digestion in open system) **Analysis:** LC-ICP/MS	Internal method MOC3/94
Cereal Products Fruits and vegetables Non-alcoholic beverages Sweetened products Dairy products Spices and condiments, Aromatic and medicinal plants	Arsenic III, Arsenic V, monomethyl Arsenic, dimethyl Arsenic, MOC3/434Arsenocholine AsC, Arsenobetaine AsB	**Mineralization :** Wet process (acid digestion in open system) **Analysis:** IC-PCR/MS	Internal method
Fish products Fruits and vegetables Mushrooms	Mercury II HgII, Methylmercury MeHg	**Mineralization :**	Internal method MOC3/144

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Medicinal plants Food supplements Animal feed		Wet process (acid digestion in open system) **Analysis:** LC/ICP-MS	
Human food : Cereal products, Fatty products, Egg products, Dairy products, Meat products, Fish products, Fruits and vegetables, Sweetened 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 process (open system digestion) **Analysis:** ICP-MS	Method Internal MOC3/152
Human food : Cereal products, Fatty products, Egg products, Dairy products, Meat products, Fish products, Fruits and vegetables, Sweetened 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 process (open system digestion) **Analysis:** **ICP-AES**	Method Internal MOC3/482

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Mycotoxins | Scope of Accreditation No. 1-1904

Range FLEX 3

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 mycotoxin content	**Extraction:** by solvent **Purification:** Immunoaffinity SPE **Analysis:** UFLC/ LC-UV LC-Fluo LC-FLUO with post-column bypass 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 fruits Pulses Cereal products Oilseed and nut products Products derived from fruits : Compotes, Juices Alcoholic beverages Coffee/Cocoa Coffee/cocoa products Food and drink for children Spices Pet food	Determination of ochratoxin A content	**Extraction:** by solvent **Purification:** Immunoaffinity **Analysis:** LC-FLUO	Internal method MOC3/65
Fresh fruit and fruit products including baby food	Determination of patulin content	**Extraction/purification:** Solvent/SPE **Analysis:** LC-MS-MS	Internal method MOC3/37
Cereals Oilseeds Nuts Dried fruits Pulses Cereal products Oilseed and nut products Products derived from fruits: Compotes (including baby food) Food for children Spices Animal feed	Determination of aflatoxin content (B1, B2, G1, G2)	**Extraction:** by solvent **Purification :** Immunoaffinity **Analysis:** LC-FLUO with post-column derivation	Internal method MOC3/71

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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 : Deoxynivalenol (DON), Fumonisins (B1+B2, B3), HT2 toxin, T2 toxin, Zearalenone (ZEA), Aflatoxins (B1, B2, G1, G2), Ochratoxin A (OTA)	**Extraction / purification:** Solvent / SPE **Purification :** Immunoaffinity **Analysis:** LC-MS-MS	Internal method MOC3/107
Spices Dry plants Coffee and cocoa and their derivatives	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 dairy products including baby food Dairy products containing cereals	Determination of Aflatoxin M1	**Extraction:** by solvent **Purification:** Immunoaffinity **Analysis:** LC-FLUO	Internal method MOC3/110
Cereals, Cereal products Pulses (dried vegetables) Fresh vegetables, Leafy vegetables, Animal feed, Oil cakes	Determination of content in **Datura alkaloids** (atropine and scopolamine)	**Extraction** : By solvent **Purification**: SPE **Analysis**: LC-MS-MS	Internal method MOC3/121
Cereals Cereal products Pulses (dried vegetables) Fresh vegetables Animal feed Oilseed cake Infant food	Determination of **ergot alkaloid** content (Ergocristine / Ergocristinine, Ergotamine / Ergotaminine, Ergocryptine / Ergocryptinine, Ergometrine / Ergometrinine, Ergosin / Ergosinine, Ergocornine / Ergocorninine)	**Extraction:** by solvent **Purification:** SPE **Analysis:** LC-MS/MS	Internal method MOC3/122
Cereals, Cereal products Fresh fruit Dried fruits Nuts Fruit products Baby food Oilseeds Oilseed and nut products Spices Animal feed	Determination of the **tenuazonic acid** content **Alternariol** **Alternariol methyl ether**	**Extraction** Cold solid/liquid **Purification** d-SPE **Analysis** LC-MS/MS	Internal method **MOC3/447**

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Alkaloids — Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Products of plant origin **Animal products** **Animal feed**	Organic contaminant residues	**Extraction:** Cold solid/liquid Cold liquid/liquid Solid/liquid when hot Hydrolysis Bypass **Purification:** Liquid-Solid (SPE) Liquid -Liquid **Analysis:** 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 biological matrices of animal origin - LAB GTA 26/99-2		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
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 / Physicochemical 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:** LC-UV LC-FLUO LC-FLUO with post-column bypass LC-MS/MS

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

Detailed scope

Food industry / Miscellaneous foods / Physicochemical 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

Range FLEX3

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 products** **Animal feed**	**Corn** Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenization / Grinding Extraction Real-time PCR Qualitative and quantitative testing
Raw products **Processed products** **Cereal products** **Sweetened products** **Animal feed**	**Soybeans** Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenization / Grinding Extraction Real-time PCR Qualitative and quantitative testing
Raw products (seeds, grains, flour ...) **Processed products** **Cereal products** **Sweetened products** **Animal feed**	**Rapeseed** Target PCR plant species PCR target of a GMO sequence : - screening sequence - specific event sequence	Homogenization / Grinding Extraction Real-time PCR Qualitative and quantitative testing

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Agri-food / Plants / Molecular genetics			Analyses related to genetically modified organisms - GMOs		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**FIELD OF APPLICATION**	**MEASURING RANGE**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Plant species Maize	Plant species specific PCR target: ADH	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR qualitative/quantitative	Internal method MOC3/103
Plant species Maize	GMO sequence specific PCR target*. P35S Screening	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Maize	GMO sequence specific PCR target*. Screening Tnos	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing 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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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Maize	PCR target specific to a GMO sequence*. Bar screening	Raw maize products (seed, grain, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative/ quantitative	Homogenisation/ shredding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Maize	PCR target specific to a GMO sequence*. GMF screening	Raw maize products (seed, grain, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative/ quantitative	Homogenisation/ shredding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Maize	PCR target specific to a GMO* sequence Pat screening	Raw maize products (seed, grain, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative/ quantitative	Homogenisation/ shredding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Maize	PCR target specific to a GMO sequence*. Cry1Ab/Ac screening	Raw maize products (seed, grain, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative/ quantitative	Homogenisation/ shredding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Corn	GMO sequence specific PCR target Event specific identification MON810	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	PCR target GMO sequence specific Event specific identification MON863	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	GMO sequence specific PCR target Event specific identification NK603	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	GMO sequence specific PCR target Event specific identification GA21	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing 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 Corn	GMO sequence specific PCR target Event specific identification Bt11	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	GMO sequence specific PCR target Specific event identification Mon88017	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	GMO sequence specific PCR target Event specific identification T25	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Corn	GMO sequence specific PCR target Event specific identification TC1507	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DAS-40278-9	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: DAS-59122-7	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MIR162	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MIR604	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: Mon89034	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: VCO-01981-5	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: Mon87427	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON87403	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON87460	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON87411	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DP-4114-3	Raw corn products Processed products Cereal products, Sweetened and Sugared product, Animal feed	Qualitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: MZHG0JG	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: 5307	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MZIR098	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON87419	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: MON87429	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON95379	Raw corn products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DP23211	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DP202216	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: DP915635	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: MON94804	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DP51291	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DP910521	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing 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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Species plant Corn	GMO sequence specific PCR target Event specific identification: MON95275	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species plant Corn	GMO sequence specific PCR target Event specific identification: DAS1131	Raw corn products (seed, grain, flour, etc.) Processed products Cereal products, sweetened products, animal feed Dietetic products, diets and special foods	Qualitative / quantitative	Homogenization/ crushing 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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Tel. +33 (0)4 34 14 70 00 - Fax +33 (0)4 66 23 99 95 - www.phytocontrol.com - contact@phytocontrol.com
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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASURING RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Plant species Soybean	Plant species specific PCR target: Lectin	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybean	GMO sequence-specific PCR target* Screening P35S	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybean	GMO sequence specific PCR target*. Screening Tnos	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybean	GMO sequence specific PCR target*. Screening Pat	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing 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 Soybean	GMO sequence specific PCR target*. Screening FMV	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybeans	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	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybeans	GMO sequence specific PCR target Event specific identification RRS2	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybeans	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	Homogenization/ crushing 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 Soybeans	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	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybeans	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 / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Soybeans	GMO sequence specific PCR target Event specific identification A5547-127	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/ crushing Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Phytocontrol Analys Plant species Soybeans	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	Homogenization/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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Species Vegetable Soya	GMO sequence specific PCR target Event specific identification MON87751	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DAS-68416-4	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DAS-44406-6	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification SYHTØH2	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/grinding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species Vegetable 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	Homogenization/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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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	FIELD OF APPLICATION	MEASURIN G RANGE	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DP356043-5	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization /grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Species Vegetable Soya	GMO sequence specific PCR target Event specific identification DBN-09004-6	Raw soybean products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization /grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed Plant species-specific PCR target: CRUA	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/gr in ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed Screening P35S	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/grin ding Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed screening TNOS	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative / quantitative	Homogenization/grin ding 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 Rapeseed	Rapeseed Pat screening	Raw rapeseed products (seeds, grains, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative / Quantitative	Homogenisation/grinding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed GMF screening	Raw rapeseed products (seeds, grains, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative / Quantitative	Homogenisation/grinding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed Bar screening	Raw rapeseed products (seeds, grains, flour, etc.) Processed products Cereal products, Sweetened products, Animal feed	Qualitative / Quantitative	Homogenisation/grinding Manual extraction of DNA by adsorption on a silica column or semi-automated extraction of DNA using magnetic beads Real-time PCR	Internal method MOC3/103
Plant species Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed GMO sequence specific PCR target Event specific identification : MS1	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/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 Rapeseed	Rapeseed 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 / Quantitative	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed 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 / Quantitative	Homogenization/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 Rapeseed	Rapeseed 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 / Quantitative	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed 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	Homogenization/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 Rapeseed	Rapeseed Specific PCR target for a GMO sequence Event specific identification : MON94100	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/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 Rapeseed	Rapeseed Specific PCR target for a GMO sequence Event specific identification : MS11	Raw rapeseed products (seeds, grains, flour...) Processed products Cereal products, Sweetened and sugared products, Animal feed	Qualitative	Homogenization/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

Range FLEX3

General scope*

Food / Allergens / Molecular genetics		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Cereal products **Fruits and vegetables** **Sweetened products** **Coffee, tea and infusion** **Dairy products** **Fatty products** **Meat products** **Alcoholic and non-alcoholic beverages** **Spices** **Compound Foods** **Infant food** **Dietetic products**	Detection of target DNA sequence of a plant or animal species (species identification or allergy-prone) Simplex or duplex detection	Grinding / Homogenization 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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Food / Allergens / Molecular genetics

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Raw grain products **Processed grain products** **Fruits and vegetables** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spices** **Compound foods** **Infant food** **Dietetic products** **Sweetened products**	Specific target DNA sequence of : **cashew nut**: Ana o3 2S albumin	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Fruits and vegetables** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spices** **Compound foods** **Infant food** **Dietetic products** **Sweetened products**	Specific target DNA sequence of : the **nut** : Vicilin-like seed storage protein	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Fruits and vegetables** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion**	Specific target DNA sequence of : the **hazelnut** : Cor a 1	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel)

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Spices: turmeric and paprika **Compound foods** **Infant food** **Dietetic products** **Sweetened products**			Real-time PCR amplification
Raw grain products **Processed grain products** **Fruits and vegetables** **Fatty products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Sweetened products**	Specific target DNA sequence of : **almond** : prunin 1 precursor	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Fatty products**: sunflower oil and butter **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** : tea and jasmine flower **Sweetened products**	Specific target DNA sequence of : **peanut**: Arah 1 gene	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** Fatty **products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Sweetened products:** cakes and cake preparations	Specific target DNA sequence of : **sesame**: 2S albumin	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

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Raw grain products **Processed grain products** **Fruits and vegetables** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spices** **Compound foods** **Infant food** **Dietetic products** **Sweetened products**	Specific target DNA sequence of : **pecan** : Vicilin-like seed storage protein	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Compound foods** **Infant food** **Dietetic products** **Sweetened products**	Specific target DNA sequence of : **soybean**: lectin	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Fatty products** **Alcoholic beverages** **Coffee, tea, infusion** **Infant food** **Sweetened products**	Specific target DNA sequence of : **lupin**: conglutin alpha mRNA	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

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Raw grain products **Processed grain products** **Fruits and vegetables** **Fatty products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Compound foods** **Infant food** **Sweetened products**	Specific target DNA sequence of : **Brazil nut** : 2S albumin (ber e1)	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products: soybeans and barley **Processed grain products** **Fruits and vegetables** **Sweetened products**	Specific target DNA sequence of : the **pistachio** : COR gene dehydrin	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed grain products** **Fruits and vegetables** **Dairy products** **Fatty products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, Tea, Infusion** **Spices** **Compound foods** **Infant food** **Dietetic products** **Sweetened products:** chocolate powder	Specific target DNA sequence of : **Macadamia nut** : vicillin precursor	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Raw grain products **Processed Grain Products** **Dairy products** Fatty **products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spice**s Compound **foods** **Infant food** **Dietetic products**	**Mustard-specific** target DNA sequence: MADS D (Sinapis Alba) and reverse transcriptase from gypsy-like retroelement (brassica juncea and Brassica nigra)	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed Grain Products** **Dairy products** Fatty **products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spice**s Compound **foods** **Infant food** **Dietetic products**	**White mustard (**Sinapis Alba) specific target DNA sequence: MADS D	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw grain products **Processed Grain Products** **Dairy products** Fatty **products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spice**s Compound **foods** **Infant food** **Dietetic products**	**Brown/black mustard (**brassica juncea and brassica nigra) specific target DNA sequence: reverse transcriptase from gypsy-like retroelement	Milling / Homogenization 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 / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMagPLant II (Macherey-Nagel) Real-time PCR amplification
Raw Grain Products Compound **foods** **Processed Grain Products** **Dairy products** Fatty **products** **Meat products** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spice**s **Infant food Dietetic products**	**Mollusc-specific** target DNA sequence not specified by the PCR kit supplier	Milling / Homogenization Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Amplification by PCR real time qualitative method	Internal method MOC3/115 : Milling / Homogenization DNA extraction : NucleoSpin®Plant I or NucleoMag®Plant II (Macherey-Nagel) Real time PCR amplification

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Raw Grain Products **Processed Grain Products** **Alcoholic beverages** **Non-alcoholic beverages** Compound **foods**	**Fish-specific** target DNA sequence: 18S RNA	Milling / Homogenization Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Amplification by real-time PCR qualitative method	Internal method MOC3/115 : Grinding / Homogenization : IC3/01-01.D DNA extraction : NucleoSpin®Plant II or NucleoMag®Plant II (Macherey-Nagel) Real time PCR amplification
Raw grain products **Processed Grain Products** **Dairy products** Fatty **products** **Meat products** **Alcoholic beverages** **Non-alcoholic beverages** **Coffee, tea, infusion** **Spice**s Compound **foods Infant food Dietetic products**	Specific target DNA sequence of celery: MDH	Milling / Homogenization Manual DNA extraction by silica column adsorption or semi-automated DNA extraction by magnetic beads Amplification by real-time PCR qualitative method	Internal method MOC3/115 : Grinding / Homogenization DNA extraction : NucleoSpin®Plant II or NucleoMag®Plant II (Macherey-Nagel) Real time PCR amplification

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General scope*

Food / Allergens / Immunology		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Cereal products **Alcoholic and non-alcoholic beverages** **Compound foods** **Meat products** **Fish products** **Sweet products** **Dairy products** **Spices and aromatic plants** **Baby food** **Dietetic food, diet and special food** **Dried fruits**	Detection and quantification of allergenic proteins	Grinding / Homogenization 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 Crude grains 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 foods :** Baking mix Preparations for sauces Pizzas Toast Cereal and vegetable purée, ravioli **Spices and aromatic plants** **Dietary food, diet and special food:** Soy-based dairy substitutes	Detection and quantification of gluten	Grinding / Homogenization 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/Homogenization Protein extraction ELISA	Internal method MOC3/149 Supplier kit: R7021 RIDASCREEN® Gliadin Competitive (R. BIOPHARM)

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Non-alcoholic beverages : Almond milk Soy milk Fruit juice **Cereal products :** Crude grains and primary products Puffed cereals Cereal products containing chocolate **Sweetened products :** Sorbets & Popsicles **Compound foods** 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 / Homogenization Protein extraction ELISA	Internal method MOC3/125 according to supplier kit : R4612 RIDASCREEN®FAST Casein (R. BIOPHARM)
Cereal products : Crude grains and primary products Puffed cereals **Compound foods** : Babyfood Chile Bolognese sauce Soup **Meat products :** Chorizo- Pork chop ham **Dairy products** Cheese **Drinks** Wine	Detection and quantification of egg protein	Grinding / Homogenization 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 grain products*** ***Compound foods*** **Dietary food, diet and special food:** Soy-based dairy substitutes	Detection and quantification of total milk protein	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/125 according to R4652 supplier kit RIDASCREEN FAST Milk (R BIOPHARM)
Cereal products (raw and primary processing) : Corn flour, Soybeans, 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/Homogenization Protein extraction ELISA	Internal method MOC3/190 according to supplier kit R4912 RIDASCREEN® F AST β-Lactoglobulin (R. BIOPHARM)
Cereal products (raw and primary processing) **Processed grain products** **Compound Foods** **Baby food** **Meat products** **Soft drinks**	Detection and quantification of soybean	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/197 Supplier kit: R7102 RIDASCREEN®FAST Soya (R. BIOPHARM)

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Compound foods : Quiche, pizza, ravioli, cookies **Dietary and special foods :** Food supplements, phycocyanine, tablets, collagen	Detection and quantification of crustacean tropomyosin proteins	Grinding / Homogenisation Protein extraction ELISA	Internal method MOC3/597 Supplier kit: R7312 RIDASCREEN®FAST Crustacean (R. BIOPHARM)
Cereal products Corn flour, 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 aromatic plants*** Mustard seed, Nutmeg, Pepper, Garlic ***Dried fruits*** **Dietary food, diet and special food:** Soy yoghurt	Detection and quantification of hazelnut	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/192 Supplier kit : R6802 RIDASCREEN Fast Hazelnut (R-BIOPHARM)
Cereal products Corn flour, 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 aromatic plants*** Mustard seed, Nutmeg, Pepper, Garlic	Detection and quantification of the almond	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/191 Supplier kit : R6901 RIDASCREEN Fast Mandel / Almond (R-BIOPHARM)

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Dried fruits **Dietary food, diet and special food:** Soy yoghurt			
Cereal products Corn flour, 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 aromatic plants*** Mustard seed, Nutmeg, Pepper, Garlic ***Dried fruits*** **Dietary food, diet and special food:** Soy yoghurt	Detection and quantification of the nut	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/193 Supplier kit : Walnut WAL-E01 (LIBIOS, Immunolab)
Cereal products Corn flour, 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 aromatic plants*** Mustard seed, Nutmeg, Pepper, Garlic ***Dried fruits***	Detection and quantification of macadamia nut	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/194 Supplier kit : Macadamia Nut MAC-E01 (LIBIOS, Immunolab)

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Dietary food, diet and special food: Soy yoghurt			
Cereal products Corn flour, 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 aromatic plants*** Mustard seed, Nutmeg, Pepper, Garlic ***Dried fruits*** **Dietary food, diet and special food:** Soy yoghurt	Detection and quantification of pistachio	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/195 Supplier kit : Pistachio PIS-E01 (LIBIOS, Immunolab)
Cereal products (raw and primary processing) : Corn, round rice, quinoa, teff flour **Processed cereals** : Pastry mix, mini plum cake, cookies, madeleines **Spices:** mustard seed, cumin, coriander seed, paprika **Sweetened sweets**: 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 lupin	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/590 Supplier kit : R6102 RIDASCREEN Fast Lupine / (R-BIOPHARM)

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Raw grain products **Processed grain products** **Dried fruits** **Spices** **Sweetened products** **Dairy products** **Dietary food, diet and special food**	Detection and quantification of peanut protein	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/596 Supplier kit : R6811 RIDASCREEN Fast Peanut / (R-BIOPHARM))
Cereal products (raw and primary processing) : Corn, round rice, quinoa, teff flour **Processed grain 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 yogurt, plain yogurt, mango yogurt, fresh goat cheese **Dried fruits :** Nuts, hazelnuts, peanuts, macadamia nuts	Detection and quantification of cashew nuts	Grinding / Homogenization Protein extraction ELISA	Internal method MOC3/592 Supplier kit : R6872 RIDASCREEN Fast Cashew (R-BIOPHARM)
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 soybean	Grinding / Homogenization 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

Range FLEX3

General scope*

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Products of plant origin **Animal products** **Animal feed**	Organic contaminant residues	**Extraction:** Cold solid/liquid Cold liquid/liquid Solid/liquid when hot Hydrolysis Bypass **Purification:** Liquid-Solid (SPE) Liquid -Liquid **Analysis:** 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 biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Plant-based products: 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 Products rich in sugar and low in water Products low in water and fat Wine Fruit and vegetable juices **Products of animal origin :** Processed egg products (egg-based pasta, madeleine, pancakes)	Determination of the content of saturated mineral oils (**MOSH**) and aromatic oils (**MOAH**)	**Preparation:** Cold solid/liquid or Liquid/cold liquid Hydrolysis **Purification:** SPE **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 plasticizers :** - 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

Range FLEX3

General scope*

Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Products of plant origin **Animal products** **Animal feed**	Organic contaminant residues	**Extraction:** Cold solid/liquid Cold liquid/liquid Solid/liquid when hot Hydrolysis Bypass **Purification:** Liquid-Solid (SPE) Liquid -Liquid **Analysis:** 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 biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant and animal origin : Tea, cocoa, vegetable oils, soy sauce, hydrolysed vegetable proteins, infant milk	3-MCPD (free) 2-MCPD (free) Glycidol (free)	**Preparation/Extraction :** Solid / liquid when cold 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, Hydrolyzed vegetable protein Pastries and baked goods 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 biological matrices of animal origin - LAB GTA 26/99-2		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin 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 :** Solid / liquid when cold **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, yogurt	Determination of Acrylamide content	**Extraction:** Cold solid/liquid **Purification:** SPE **Analysis:** LC-MS/MS	Internal method MOC3/129

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Others contaminants | Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

Food industry / Miscellaneous foods / Physico-chemical analysis	Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Products of plant origin **Animal products** **Animal feed**	Organic contaminant residues	**Extraction:** Cold solid/liquid Cold liquid/liquid Solid/liquid when hot Hydrolysis Bypass **Purification:** Liquid-Solid (SPE) Liquid -Liquid **Analysis:** 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 biological matrices of animal origin - LAB GTA 26/99-2		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin: Products high in oil (vegetable oils and fats) Products low in water and fat (cereals and cereal products) **Products of animal origin:** Dairy products (powdered and liquid infant formula)	Cereulide (an emetic toxin produced by Bacillus cereus)	**Preparation/Extraction :** Solid / liquid when cold **Analysis:** GC-MS/MS	Internal method MOC3/800

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

Range FLEX3

General scope*

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

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Food industry / Miscellaneous foods / Physico-chemical analysis		Analysis of pesticide residues and organic contaminants in food, feed and biological matrices of animal origin - LAB GTA 26/99-2	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Products of plant origin : Oil-rich products Infant 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 Infant food **Animal feed :** Flours of animal origin Compound foods 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 Infant 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 FLEX3

General scope*

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

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Detailed scope

#Agroalimentaire / Miscellaneous foods / Physicochemical analysis		Analyses 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, Egg, 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

#Agroalimentaire / Miscellaneous foods / Physicochemical analysis	Analyses of authorised or unauthorised substances for veterinary or zootechnical use (veterinary medicines) - LAB GTA 30/99-6

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Eggs Flesh 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 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: **L incomycin**	**Preparation**: Solvent extraction **Purification:** SPE **Analysis**: LC-MS/MS	Internal method MOC3/453
Flesh Offal Eggs Milk Fish products	**Screening:** Drug residues	**Preparation**: Solvent extraction **Purification:** SPE **Analysis**: LC-MS/MS	Internal method MOC3/454
Honey	Determination of **aminosides :** 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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Eggs Flesh 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 coloring | Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

Food industry / Various foodstuffs, Dairy products, Meat products, Sea products, Beverages (except drinking water) and sweetened products / Physicochemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-61-80-118
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Human Food	Determination of dye content	**Preparation:** Solvent extraction **Analysis:** LC-MS/MS UFLC-DAD

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Detailed scope

Food industry / Various foodstuffs, Dairy products, Meat products, Sea products, Beverages (except drinking water) and sweetened products / Physicochemical analyses		Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-61-80-118	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Spices and condiments Compound foods 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

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Isotope ratios | Scope of Accreditation No. 1-1904

Range FLEX3

General scope*

Food industry / Various foodstuffs / Physicochemical analyses		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Plant-based food products	**Determination of isotopic ratios**	**Preparation :** Cold solid/liquid extraction **Purification :** Evaporation **Analysis :** GC-IRMS

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Detailed scope

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Food industry / Various foodstuffs / Physicochemical analyses

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Vanilla	13C/12C isotope ratios of vanillin	**Preparation :** Cold solid/liquid extraction **Purification :** Evaporation **Analysis :** GC-IRMS	Internal method MOC3/435
Sugar	13C/12C isotope ratios of vanillin	**Preparation :** Cold solid/liquid extraction **Purification :** Evaporation **Analysis :** GC-IRMS	Internal method MOC3/435
Flavour	13C/12C isotope ratios of vanillin	**Preparation :** Cold solid/liquid extraction **Purification :** Evaporation **Analysis :** GC-IRMS	Internal method MOC3/435

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Nutritional values | Scope of Accreditation No. 1-1904

Range FLEX3

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 ICP-AES

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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 : Fruits and vegetables Compound foods Dairy products Fatty products Sweetened 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
Human food : Fruits and vegetables Compound foods Dairy products Fatty products Sweetened 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-AES	Internal method MOC3/482

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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 Enzymatic reaction

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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 : Fruits and vegetables Compound foods Dairy products Sweetened products Cereal products Diet 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

Range FLEX3

General scope*

Food industry / Various foodstuffs, Meat products, Fats and oils, 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 characterization Determination of fatty acid methyl esters	**Preparation:** Solvent extraction : n-hexane / Isopropanol 3 /2 (v/v) Methylation **Analysis:** GC-FID

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Detailed scope

Food industry / Various foodstuffs, Meat products, Fats and oils, 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 products** **Diet foods, special foods, special diets** **Meat products** **Cereal products except raw cereals**	Extraction of fat for characterization	**Solvent extraction :** n-hexane / Isopropanol 3 /2 (v/v)	Internal method MOC3/160
Fatty products **Sweetened 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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Food industry / 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 vegetables Diet foods Special diets Mixed foods Spices and condiments Dairy products Meat products Fish products Sweetened products Coffee, tea, herbal tea Cereal products **Animal feed :** Compound foods	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 : Diet foods Compound foods Fruits and vegetables Fatty products Sweetened 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 carry out the tests strictly in accordance with the methods mentioned in the scope of accreditation. Technical changes to the procedures are not permitted.*

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FIXED range

Food industry / Meat products, Sea 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 25/80	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Fish products	Determination of total volatile basic acid concentration (ABVT)	**Preparation:** Filtration Distillation **Analysis**: Titrimetry	Internal method MOC3/188

FIXED range

Food industry /Fat / Physicochemical 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 carry out the tests strictly in accordance with the methods mentioned in the scope of accreditation. Technical changes to the procedures are not permitted.*

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Range FLEX1

Food industry /Fat / Physicochemical 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 value and acidity	Titrimetry	NF EN ISO 660
Fats of animal and vegetable origin	Determination of the peroxide value	Titrimetry	NF EN ISO 3960

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

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General scope*

Food industry / Various foodstuffs, Beverages (except drinking water) and sweetened products, Cereal products / Physicochemical analysis	Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-82

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD
Human food	Determination of acid value 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 25/60-82

SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
Fatty products : oil seeds nuts mayonnaise **Compound foods**	Determination of acid value and acidity	Titrimetry	Internal method MOC3/172

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General scope*

Food industry / Various foodstuffs, Beverages (except drinking water) and sweetened products, Cereal products / Physicochemical 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:** Enzymatic digestion automatic **Analysis:** Gravimetry

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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 foods, Special diets, Special foods **Fruits and vegetables** **Compound foods** **Sweetened 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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Range FLEX3

General scope*

Agri-food / Feed / Physico-chemical analysis	Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/81	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Animal Feed	Determination of cellulose content	**Preparation / Analysis:** Hot digestion Filtration Calcination Gravimetry

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Detailed scope

Agri-food / Feed / Physico-chemical analysis	Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/81		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Raw materials **Compound, complete or complementary foods**	Determination of crude fibre content	**Preparation / Analysis:** Hot digestion Filtration Calcination Gravimetry	Internal method MOC3/572

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Range FLEX3

General scope*

Food / Various foods, Dairy products, Meat products, Seafood, Animal feed, Fats, Beverages (except drinking water) and sweetened products / Physico-chemical analysis	Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/60-61-80-81-82-118	
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**
Human Food **Animal Feed**	Determination of Vitamin	**Preparation:** Reduction Saponification Solvent extraction Acid extraction SPE Purification Evaporation **Analysis:** **LC-MS/MS**

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Food / Various foods, Dairy products, Meat products, Seafood, Animal feed, Fats, Beverages (except drinking water) and sweetened products / Physico-chemical analysis	Physico-chemical analyses for the determination of composition, quality and technological criteria, and nutritional labelling in food and feed - LAB GTA 25/81		
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**
Human food : Dairy products Fruits and vegetables Non-alcoholic beverages Dietetic food, Diet food, Special diet, Animal feed : (e.g., complete or complementary compound foods)	Determination of vitamin C content	Acid extraction Reduction Analysis: LC-MS/MS	Internal method MOC3/570
Human food : Fatty products Dairy products Fruit and vegetables	Determination of vitamin A content	Saponification Solvent extraction SPE purification Evaporation Analysis: LC-MS/MS	Internal method MOC3/571
Human food : Fatty products Dairy products Fruit and vegetables Animal feed : Complete or complementary compound feedingstuffs)	Determination of vitamin E content	Saponification Solvent extraction SPE purification Evaporation Analysis: LC-MS/MS	Internal method MOC3/571

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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 : Fruits and vegetables Compound foods Dairy products Fatty products excluding seeds oilseeds Sweetened products Grain products except raw cereals **Diet foods** **Spices and condiments** **Meat products** **Non-drinks alcoholic** **Animal feed :** Complete or complementary compound feeds	Determination of total lipid content	**Preparation:** Hydrolysis Solvent extraction **Analysis:** Gravimetry	Internal method MOC3/154
Human food : Fruits and vegetables Compound foods Diet foods Cereal products Dairy products Meat products/fish products Fatty products Sweetened products Non-alcoholic beverages **Animal Feed :** Compound foods Raw material	Determination of total lipid content	**Preparation:** Microwave hydrolysis Microwave extraction **Analysis:** Gravimetry	Internal method MOC3/560

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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 : Fruits and vegetables Compound foods Dairy products Fatty products Sweetened products Cereal products **Animal feed :** Complete compound foods or complementary	Determination of total nitrogen content and calculation of protein content	**Kjeldahl :** Mineralization Distillation Titrimetry	Internal method MOC3/153

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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	Mineralization by dry process 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 : Fruits and vegetables Compound foods Dairy products Fatty products excluding seeds oilseeds Sweetened products Grain products except raw cereals Diet foods Spices and condiments Non-alcoholic beverages **Animal feed :** Complete compound foods or complementary Raw materials	Determination of dry matter content or water content	Desiccation Gravimetry	Internal method MOC3/150
Human food : Fruits and vegetables Compound foods Dairy products Fatty products excluding seeds oilseeds Sweetened products Grain products except raw cereals **Animal feed :** Complete compound foods or complementary	Determination of ash content	Mineralization by dry process Gravimetry	Internal method MOC3/151

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General scope*

Food industry / Various foodstuffs, Beverages (except drinking water) and sweetened products / Physicochemical 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

Food industry / Various foodstuffs, Beverages (except drinking water) and sweetened products / Physicochemical 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**
Fruits and vegetables Compound foods 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

Range FLEX3

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)

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SAS with a capital of 1.000.000 euros - RCS Nîmes 490 024 049 - VAT intra FR 08 490 024 049 - APE 7120B

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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Radioactivity | Scope of Accreditation No. 1-1904

FIXED range / FLEX1 range

# Food / Various foods / Radioactivity measurements	Analysis of radionuclides in the environment, in products of animal origin and in foodstuffs intended for humans or animals - LAB GTA 35			
SUBJECT	**CHARACTERISTIC MEASURED OR RESEARCHED**	**PRINCIPLE OF THE METHOD**	**REFERENCE OF THE METHOD**	**MEASURED QUANTITY AND MEASUREMENT RANGE ACTIVITY**
Foodstuffs solids	γ-emitting radionuclides Energy range: 40 to 2000 KeV	**Preparation** Determination of radionuclide mass activity by high-resolution γ spectrometry	**Preparation:** Internal method MOC 3/499 **Measurement:** NF EN ISO 20042	0.03 Bq/L (1) up to the activity obtained for a dead time equal to 10%. (1) ^{137}Cs decision threshold at 661.66 keV
Liquid foodstuffs	γ-emitting radionuclides Energy range: 40 to 2000 KeV	**Preparation** Determination of the activity concentration of radionuclides by high-resolution γ spectrometry	**Preparation:** Internal method MOC 3/499 **Measurement:** NF EN ISO 20042	0.03 Bq/L (1) up to the activity obtained for a dead time equal to 10%. (1) ^{137}Cs decision threshold at 661.66 keV

***FLEX1 flexible scope** : The laboratory is recognised as competent to carry out tests in accordance with the referenced methods and their subsequent revisions.*

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

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Food microbiology | Scope of Accreditation No. 1-1904

Range FLEX1

Food / Miscellaneous / Sampling - Sampling [1]	Sampling of agri-food objects - 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 on surface by means of contact boxes, swabs, sponges and wipes	NF EN ISO 18593

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

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

FIXED range

Food / Miscellaneous / Sampling - Sampling [1]	Sampling of agri-food objects - 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 sampling	Internal method MOC3/291

***FIXED SCOPE:** The laboratory is recognized as competent to perform sampling in strict accordance with the methods mentioned in the scope of accreditation. Technical modifications to the procedure are not permitted.*

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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 by the deep plating 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 EN 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	Colony count at 44°C	NF V08-060
Products intended for human consumption or animal feed	*Escherichia coli* - β-glucuronidase positive	Colony count at 44°C	NF ISO 16649-2

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SUBJECT	CHARACTERISTIC MEASURED OR RESEARCHED	PRINCIPLE OF THE METHOD	REFERENCE OF THE METHOD
All food products	Coliforms	Enumeration of colonies 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	Enumeration of colonies at 37°C by RAPID chromogenic medium *E.coli* 2	BRD 07/07-12/04
All food and feed products	Enterobacteriaceae	Enumeration of colonies at 37°C by medium chromogenic REBECCA™ + EB	AES 10/07-01/08
All food and feed products	*Escherichia coli* - β - glucuronidase positive	Enumeration of colonies 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 vegetable 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 automated system (VIDAS ECPT)	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 colony count 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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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	Enumeration of colonies 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 medium with low water activity	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.*	Search Isolation / Identification and confirmation	NF EN ISO 6579-1
All food and feed products samples from the industrial production environment	*Salmonella spp*	Research by chromogenic medium RAPID Salmonella	BRD 07/11-12/05
All food and feed products and samples from the industrial production environment	Salmonella spp	IQ-Check Salmonella II Real-Time PCR	BRD 07/06-07/04
Products intended for human consumption or animal feed and	*Listeria monocytogenes and Listeria spp*	Search Isolation / Identification and confirmation	NF EN ISO 11290-1

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samples of the food production and distribution environment			
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 recognized as competent to perform the tests following 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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