



NQAC Dublin Analysis Portfolio

Method Reference AOCS-Cd 29a-13	Method Name 2- and 3-MCPD Fatty Acid Esters and Glycidol Fatty Acid Esters in Edible Oils and Fats by Acid Transesterification	Sample Weight 100 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Fat and oils and infant formula* Products must contain >2% fat. Any applicable matrix will be attempted, however, if acceptance criteria established by the matrices that are validated is not met then the matrix will be considered not compatible or increased QLs may be reported. Products other than fat/oil will be reported as in product unless results in fat/oil are specifically requested.

*Product types other than fat/oil will require the appropriate fat determination test (LI-00.520 Fat by Mojonnier or LI-75.204 Fat by Acid Hydrolysis) be added (unless already requested) in order to provide in product results.

Analytes	QL	UOM	Variation
2-chloropropane-1,3-diol fatty acid esters (2-MCPD)	0.1	mg/kg in fat or in product	**QL listed or adjusted based on fat content in product
3-chloropropane-1,2-diol fatty acid esters (3-MCPD)	0.1	mg/kg in fat or in product	**QL listed or adjusted based on fat content in product
glycidyl fatty acid esters (glycidol)	0.1	mg/kg in fat or in product	**QL listed or adjusted based on fat content in product

Method Reference EXT_Fucosyllactose	Method Name 2'- Fucosyllactose*	Sample Weight 100 g	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
2'- Fucosyllactose		g/100g	

Method options listed above may be matrix dependent.

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Method Reference NQA-54.0009	Method Name 4-Nonylphenol Ethoxylates (4-NPE) in Food by LC-MS/MS	Sample Weight Original container or unwashed glass or metal container (minimum 25 g)	Turnaround Time Routine 7
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Matrices and Comments

Dairy raw materials and milk-based infant formulas, food matrices**

** We will attempt to run food matrices; however, if they do not meet the acceptance criteria established by the matrices that are validated then the matrix will be considered not compatible with this method or increased QL's may be reported

Analytes	QL	UOM	Variation
4-NPE	10	µg/kg	

Method Reference LI-00.156	Method Name Acrylamide by LC-MS/MS	Sample Weight 100 grams	Turnaround Time Routine 7
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Matrices and Comments

Pure soluble coffee, roast and ground coffee, coffee mixture and surrogates (chicory), cereal based products, potato products, bakery products and baby food

Analytes	QL	UOM	Variation
Acrylamide	25	µg/kg	coffee and coffee substitutes
Acrylamide	10	µg/kg	cereals (breakfast), bakery products, potato products
Acrylamide	7	µg/kg	Infant cereals and baby foods

Method options listed above may be matrix dependent.

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Method Reference LI-00.701-3	Method Name Aerobic Plate Count Petrifilm 37°C	Sample Weight 25 g	Turnaround Time 3 days
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Matrices and Comments

Raw materials, line samples, finished products, products intended for feeding of animals, and environmental samples

Analytes	QL	UOM	Variation
APC Result (37°C)	< 10/g / < 1/mL		
APC Result (Environmental / 37°C)	< 1/mL / < 10/q-tip swab / < 100/sponge swab		

Method Reference LI-00.701-1	Method Name Aerobic Plate Count Pour Plate 30°C	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Raw materials, line samples, finished products, products intended for feeding of animals

Analytes	QL	UOM	Variation
APC Result (30°C)	< 10/g / < 1/mL		

Method Reference LI-00.701-2	Method Name Aerobic Plate Count Pour Plate 37°C	Sample Weight 25 g	Turnaround Time 3 days
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Matrices and Comments

Raw materials, line samples, finished products, products intended for feeding of animals, and environmental samples

Analytes	QL	UOM	Variation
APC Result (37°C)	< 10/g / < 1/mL		

Method options listed above may be matrix dependent.

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Method Reference NQA-00-8328	Method Name Almond Traces by ELISA (Allergen)	Sample Weight n/a	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant formula, tannin-containing products (tea, coffee), nutritional drinks, finished food products, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Almond	100	ng/mL	Almond_Swabs
Almond	2.5	mg/kg	Almond

Method Reference LI-00.683	Method Name alpha/beta Carotenes	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

food

Indicate which isomers are needed; α Carotene, β Carotene or both. Products fortified with Vitamin A require the "INFANT" variation to include the extra isomers

Analytes	QL	UOM	Variation
13-cis, β Carotene	20	IUA/100g	INFANT
9-cis, β Carotene	20	IUA/100g	INFANT
β Carotene (RE)	2	μ gRE/100g	
Total Carotene (IU)	20	IUA/100g	
Total Carotene (RE)	2	μ gRE/100g	
Total β Carotene as Retinol in IU	20	IUA/100g	
Total β Carotene as Retinol in RE	2	μ gRE/100g	
trans, β Carotene	20	IUA/100g	
α Carotene	20	IUA/100g	

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Method Reference LI-00.055	Method Name Aminoglycosides in Food by LC-MS/MS	Sample Weight 100 grams	Turnaround Time Routine 7
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Matrices and Comments

Milk-based products including milk fractions, infant formula, infant cereals, baby-foods.

Meat- and fish- and seafood-based products including powdered-, fresh-, and cooked; infant cereals and baby foods.

Fatty matrices including animal fats, milk fats and oil.

Egg-based products including white and whole egg powders.

- a. Screening Target Concentration (STC). b. The STC for the sum of Gentamycin (C1, C1a and C2+C2a) is 50 µg/kg.

Analytes	QL	UOM	Variation
Amikacin	50 a	µg/kg (ppb)	
Apramycin	50 a	µg/kg (ppb)	
Dihydrostreptomycin	50 a	µg/kg (ppb)	
Gentamicin C1	13.5 a,b	µg/kg (ppb)	
Gentamicin C1a	12.5 a,b	µg/kg (ppb)	
Gentamicin C2 + C2a	24 a,b	µg/kg (ppb)	
Hygromycin B	50 a	µg/kg (ppb)	
Kanamycin A	50 a	µg/kg (ppb)	
Neomycin B	50 a	µg/kg (ppb)	
Paromomycin	50 a	µg/kg (ppb)	
Sisomicin	50 a	µg/kg (ppb)	
Spectinomycin	50 a	µg/kg (ppb)	
Streptomycin	50 a	µg/kg (ppb)	
Tobramycin	50 a	µg/kg (ppb)	

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Method Reference EXT_ANAB_SUB1	Method Name Anabolising Substances - Group 1 (Hormones)*	Sample Weight 100 g	Turnaround Time Routine 25
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Matrices and Comments

Meat

Analytes	QL	UOM	Variation
17 Alfa 19 Nortestosterone	0.5	µg/kg	
17 Alpha Boldenone	0.5	µg/kg	
17 Beta 19 Nortestosterone	0.5	µg/kg	
17 Beta Boldenone	0.5	µg/kg	
17-Alpha-Methyltestosterone	0.5	µg/kg	
Androstendione	0.5	µg/kg	
Clostebol Acetate	0.5	µg/kg	
Epitestosterone	0.5	µg/kg	
Fluoxymesterone	0.5	µg/kg	
Medroxyprogesterone	0.5	µg/kg	
Medroxyprogesterone acetate	0.5	µg/kg	
Megestrol-17-acetate	0.5	µg/kg	
Norethindrone	0.5	µg/kg	
Stanozolol	0.5	µg/kg	
Testosterone	0.5	µg/kg	
Trenbolone	0.5	µg/kg	
Trenbolone Acetate	0.5	µg/kg	

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Method Reference EXT_ANAB_SUB2	Method Name Anabolising Substances - Group 2 (Hormones)*	Sample Weight 100 g	Turnaround Time Routine 25
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Matrices and Comments

Meat

Analytes	QL	UOM	Variation
Alpha Zearalanol (Zeranol)	0.5	µg/kg	
Beta Zearalanol	0.5	µg/kg	
Dienestrol	0.5	µg/kg	
Diethylstilbestrol	0.5	µg/kg	
Hexestrol	0.5	µg/kg	

Method Reference LI-68.066	Method Name Anthocyanins - Qualitative Profile	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice concentrates

Analytes	QL	UOM	Variation
Anthocyanins Profile		Typ/Atyp	

Method Reference EXT_ANTIMONY_EC AL	Method Name Antimony*	Sample Weight 20g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Antimony	0.01	mg/lg	

Method options listed above may be matrix dependent.

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Method Reference LI-00.884	Method Name Arsenic Speciation by IC-ICPMS	Sample Weight 25 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

rice, seafood and juice concentrate

Analytes	QL	UOM	Variation
Inorganic Arsenic	20	µg/kg	

Method Reference LI-00.565	Method Name Ash Determination	Sample Weight 25 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Raw materials and finished products

Analytes	QL	UOM	Variation
Ash,Total	0.05	%	

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Method Reference LI-80.042	Method Name BADGE and Related Compounds Screen	Sample Weight Minimum of 6 Original Containers	Turnaround Time Routine 30
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Matrices and Comments

metal coatings on cans, tubes, lids and foils

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
BADGE	0.1	mg/6dm2	
BADGE.2H2O	0.1	mg/6dm2	
BADGE.2HCL	0.1	mg/6dm2	
BADGE.H2O	0.1	mg/6dm2	
BADGE.HCL	0.1	mg/6dm2	
BADGE.HCL.H2O	0.1	mg/6dm2	
BFDGE	0.1	mg/6dm2	
BFDGE.2H2O	0.1	mg/6dm2	
BFDGE.2HCL	0.1	mg/6dm2	
Bisphenol A	0.1	mg/6dm2	
Bisphenol F	0.1	mg/6dm2	
Total BADGE and BADGE Hydrates	0.1	mg/6dm2	
Total BADGE Chlorohydrates	0.1	mg/6dm2	
Total BFDGE	0.1	mg/6dm2	

Method Reference EXT_BARIUM_ECAL	Method Name Barium*	Sample Weight 20g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Barium	0.05	mg/kg	

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Method Reference NQA-06-2515	Method Name Beet Medium Invert Sugars - Qualitative Profile	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Beet Medium Invert Sugar Profile		Typ/Atyp	

Method Reference LI-00.031	Method Name Benzoic & Sorbic acids (Preservatives) by HPLC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Benzoic Acid	1	mg/kg	
Potassium Sorbate	1	mg/kg	
Sodium Benzoate	1	mg/kg	
Sorbic Acid	1	mg/kg	

Method Reference EXT_BETA_AGONIS T	Method Name Beta-Agonists*	Sample Weight 500 g	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Clenbuterol	0.2	ng/g	
Ractopamine	0.2	ng/g	

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Method Reference LI-00.041	Method Name Beta-Lactam Residues in Food by LC-MS/MS	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Milk-based products (raw milk, milk fractions, infant formula*, growing-up formula*, adult formula*, infant cereals, baby-foods);

meat- and fish-based products (powdered, fresh, cooked, infant cereals, by food

*STCs for hypoallergenic infant formulas are expressed on dry matter and not on the product “as consumed”.

Analytes	QL	UOM	Variation
Amoxicillin	4 (16 for hypoallergenic)	µg/kg (ppb)	
Ampicillin	4 (16 for hypoallergenic)	µg/kg (ppb)	
Aspoxicillin	25 (100 for hypoallergenic)	µg/kg (ppb)	
Cefacetril	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefadroxil	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefalexin	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefalonium	10 (40 for hypoallergenic)	µg/kg (ppb)	
Cefapirin	10 (40 for hypoallergenic)	µg/kg (ppb)	
Cefazolin	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefoperazone	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefquinome	10 (40 for hypoallergenic)	µg/kg (ppb)	
Ceftiofur	50 (200 for hypoallergenic)	µg/kg (ppb)	
Cefuroxime	50 (200 for hypoallergenic)	µg/kg (ppb)	

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Cloxacillin	10 (40 for hypoallergenic)	µg/kg (ppb)
Desacetylcefapirin	20 (80 for hypoallergenic)	µg/kg (ppb)
Dicloxacillin	10 (40 for hypoallergenic)	µg/kg (ppb)
Nafcillin	5 (20 for hypoallergenic)	µg/kg (ppb)
Oxacillin	10 (40 for hypoallergenic)	µg/kg (ppb)
Penicillin-G	4 (16 for hypoallergenic)	µg/kg (ppb)
Penicillin-V	10 (40 for hypoallergenic)	µg/kg (ppb)
Piperacillin	10 (40 for hypoallergenic)	µg/kg (ppb)
Sulbactam	25 (100 for hypoallergenic)	µg/kg (ppb)
Tazobactam	25 (100 for hypoallergenic)	µg/kg (ppb)

Method Reference LI-80.059	Method Name Bisphenol A in Food	Sample Weight Originals (minimum 100 g)	Turnaround Time Routine 30
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Matrices and Comments

baby foods in glass jar with metal closure, Liquid Infant Formula/HealthCare Nutrition Products (in can), Culinary Products (in glass jar with metal closure, can, in aluminum tube and in aluminum cup), in beverages from capsules of delivery machines and Pet foods (in can)

Analytes	QL	UOM	Variation
Bisphenol A	1.1	µg/kg	

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Method Reference LI-00.564	Method Name Blocked Lysine	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Raw materials and finished products

Analytes	QL	UOM	Variation
Blocked Lysine	0.05	%	
Furosine	0.05	g/16g N	
Lysine	0.05	g/16g N	
Lysine as DFL	0.05	g/16g N	
Reactive Lysine	0.05	g/16g N	

Method Reference NQA-00-0926	Method Name Brix - Citrus Juices/Concentrates	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

juice

Single Strength calculation included with BRIX_SS variation

Analytes	QL	UOM	Variation
Brix		°Bx	
Brix, Acid Corrected		°Bx	
Brix, Single Strength		°Bx	BRIX_SS

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Method Reference NQA-00-0925	Method Name Brix/Refractive Index, General Method	Sample Weight 50 g	Turnaround Time Routine 7Rush 5 Rush 5
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Matrices and Comments

foods and ingredients in liquid or semi-solid state

Choose appropriate variation

Analytes	QL	UOM	Variation
Brix		°Bx	BRIX_ONLY / BRIX_SS
Brix, Single Strength		°Bx	BRIX_SS
Refractive Index		°Bx	RI_ONLY

Method Reference LI-00.063	Method Name Butadiene and Styrene in Packaging in HS-GC-MS	Sample Weight Minimum of a stack of 12 Original Containers**	Turnaround Time Routine 30
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Matrices and Comments

Polystyrene (PS), styrene-butadiene block copolymer (SBS), or acrylonitrile-butadiene-styrene polymer (ABS) packaging materials

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
1,3-Butadiene	0.4	mg/kg	
Cyclohexane	40	mg/kg	
Styrene	50	mg/kg	

Method Reference EXT_CAFFEINE_1_E CAL	Method Name Caffeine*	Sample Weight 40 g	Turnaround Time Routine 10
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Matrices and Comments

Tea, coffee, cocoa

Analytes	QL	UOM	Variation
Caffeine	0.15	%	
Caffeine	1	ppm	

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Method Reference LI-00.008	Method Name Calculation of Carbohydrate, Calorie and Energy Content	Sample Weight See required tests	Turnaround Time Routine 7
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Matrices and Comments

To calculate Carbohydrates by difference the following analyses must be performed:

- LI-00.565 (Ash)
- LI-50.011 (Moisture)
- NQA-00.1610 (FAP)
- LI-00.556 or LI-00.557 (Protein)

Analytes	QL	UOM	Variation
Carbohydrates by difference		%	
Energy		kJ/100	
Total Calories		Cal/100g	

Method Reference NQA-CFIA-MFHPB-29	Method Name Canadian Listeria Vidas- 25g or less	Sample Weight 25 g	Turnaround Time 4 days / Confirmation see NQA-CFIA-MFHPB-30
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Matrices and Comments

Environmental samples and all foods except ready-to-eat meat and poultry, smoked fish, and yogurt

Analytes	QL	UOM	Variation
Listeria Final			

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Method Reference LI-21.057-F	Method Name Carbohydrates in coffee HPAEC (Free)	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Coffee (e.g. soluble coffee, instant coffee, roast and ground coffee, green coffee and coffee husks)

Analytes	QL	UOM	Variation
Arabinose+Rhamnose	0.03	g/100g	
Fructose	0.2	g/100g	
Fucose	0.04	g/100g	
Galactose	0.03	g/100g	
Glucose	0.2	g/100g	
Mannitol	0.03	g/100g	
Mannose	0.2	g/100g	
Ribose	0.2	g/100g	
Sucrose	0.2	g/100g	
Xylose	0.2	g/100g	

Method Reference LI-21.057-T	Method Name Carbohydrates in coffee HPAEC (Total)	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Coffee (e.g. soluble coffee, instant coffee, roast and ground coffee, green coffee and coffee husks)

Analytes	QL	UOM	Variation
Arabinose+Rhamnose	0.03	g/100g	
Fructose	0.2	g/100g	
Fucose	0.04	g/100g	
Galactose	0.03	g/100g	
Glucose	0.2	g/100g	
Mannose	0.2	g/100g	
Ribose	0.2	g/100g	
Xylose	0.2	g/100g	

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Method Reference EXT_CASHEW	Method Name Cashew (as allergen)*	Sample Weight Original (minimum 100 g)	Turnaround Time Routine 7
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Matrices and Comments

Food and swabs

Requires a negative control sample when submitting a food sample matrix.

Analytes	QL	UOM	Variation
Cashew		ppm	

Method Reference LI-00.170	Method Name Chloramphenicol in Food by ELISA Transia	Sample Weight 25 grams	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Meat, honey, fresh and powdered milk, shrimps and seafood powder

Analytes	QL	UOM	Variation
Chloramphenicol	0.1	µg/kg	

Method Reference LI-00.043	Method Name Chlorate and Perchlorate by LC-MS/MS	Sample Weight 100g	Turnaround Time Routine 7
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Chlorate	0.01	mg/kg (ppm)	
Perchlorate	0.01	mg/kg (ppm)	

Method options listed above may be matrix dependent.

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Method Reference LI-00.580	Method Name Chloride (Salt) by Ion-Selective Electrode	Sample Weight 75 g	Turnaround Time Routine 7
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Matrices and Comments

Food products, including fortified milk and cereal products, clinical nutrition products, culinary products, meat products and pet foods

Analytes	QL	UOM	Variation
Chloride	1	mg/100g	
Sodium Chloride (Salt)	0.01	g/100g	

Method Reference NQA-06-8104	Method Name Chlorogenic Acid In Apple Juice by HPLC	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Chlorogenic Acid	2	mg/kg	

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Method Reference LI-21.018	Method Name Chlorogenic acids by HPLC	Sample Weight 25 g (separate container required for liquids)	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Liquid coffee extract and pure soluble coffee, extracted either from roasted or green beans

Analytes	QL	UOM	Variation
3,4-dicaffeoylquinic acid	0.002	g/100g	
3,5-dicaffeoylquinic acid	0.001	g/100g	
3-caffeoylquinic acid	0.004	g/100g	
4,5-dicaffeoylquinic acid	0.003	g/100g	
4-caffeoylquinic acid	0.006	g/100g	
4-ferruoylquinic acid	0.001	g/100g	
5-caffeoylquinic acid	0.005	g/100g	
5-ferruoylquinic acid	0.003	g/100g	
Caffeic acid	0.003	g/100g	
Caffeine	0.004	g/100g	
Total Chlorogenic acids	0.001	g/100g	

Method Reference NQA-00-8320	Method Name Cholesterol by Gas Chromatography	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Finished products

Analytes	QL	UOM	Variation
Cholesterol	1	mg/100g	

Method options listed above may be matrix dependent.

*For our customers, NQAC Dublin will outsource these analyses internally or externally to an approved, accredited 3rd party laboratory.

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Method Reference NQA-06-8107	Method Name Citric Acid Enzymatic Determination	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice concentrates, juice purees, juice pulps and other similar products

Analytes	QL	UOM	Variation
Citric Acid	CALC	mg/100g	

Method Reference EXT_CLAM	Method Name Clam (as allergen)*	Sample Weight Original (minimum 100 g)	Turnaround Time Routine 7
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Matrices and Comments

Food and swabs

Requires a negative control sample when submitting a food sample matrix.

Analytes	QL	UOM	Variation
Clam	5	ppm	

Method Reference ISO-7937.2004	Method Name Clostridium perfringens enumeration	Sample Weight 25 g	Turnaround Time 2 days (24 hour TAT*) / Confirmed + 3-4 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals and environmental samples

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
C. perfringens Final Result	< 10/g / < 1/mL		

Method options listed above may be matrix dependent.

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Method Reference LI-00.763	Method Name Coagulase Positive Staphylococcus by StaphExpress Petrifilm	Sample Weight 25 g	Turnaround Time 2 days (24 hour TAT*)
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Matrices and Comments

Raw materials, line and finished products samples, including pet food

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
CPS Express Final	< 10/g		

Method Reference ISO-6888-3.2003	Method Name Coagulase-Positive Staphylococci MPN	Sample Weight 25 g	Turnaround Time 5 days / Confirmed +3-4 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals

This method is only recommended for products where staphylococci are expected to be stressed and in low numbers (< 1 cfu/g) as, for example, in dried products.

Analytes	QL	UOM	Variation
CPS MPN Final	< 0.3/g		

Method options listed above may be matrix dependent.

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Method Reference EXT_COCCIDIOSTA TS	Method Name Coccidiostats*	Sample Weight 200 g	Turnaround Time Routine 25
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Decoquinate	1	µg/kg	
Diclazuril	1	µg/kg	
Lasalocid A	1	µg/kg	
Maduramicin	1	µg/kg	
Micabazine	1	µg/kg	
Monensin	1	µg/kg	
Narasin	1	µg/kg	
Salinomycin	1	µg/kg	

Method Reference LI-00.738	Method Name Coliform & Ecoli Petrifilm	Sample Weight 25 g	Turnaround Time 3 days (24 hour TAT for Coliform only*)
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Matrices and Comments

Raw materials, line samples and finished products.

Method accounts for gas producing colonies only.

**If both Coliform and E.Coli is requested, using the "Both" variation the testing will be incubated at the 37°C temperature. If Coliform is needed at 30°C, must list Coliform as a separate test on the MEARs/ARF.

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested -- report will be issued in 48 hours.

Analytes	QL	UOM	Variation
Coliform Result	< 10/g		37°C
Coliform Result (Environmental)	< 100/sponge swab / < 10/q- tip swab		37°C
E. coli Result	< 10/g		37°C
E. coli Result (Environmental)	< 100/sponge swab / < 10/q- tip swab		37°C

Method options listed above may be matrix dependent.

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Method Reference ISO-4831.2006	Method Name Coliform 10 Tube MPN	Sample Weight 125 g	Turnaround Time 5 days
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Matrices and Comments

Environmental waters

Analytes	QL	UOM	Variation
Coliform MPN Final - 30°C	< 1.1/100 mL		environmental waters only
Coliform MPN Final - 37°C	< 1.1/100 mL		environmental waters only

Method Reference ISO-4831.2006	Method Name Coliform 3 Tube MPN	Sample Weight 25 g	Turnaround Time 5 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals

Analytes	QL	UOM	Variation
Coliform MPN Final - 30°C	< 0.3/g		
Coliform MPN Final - 37°C	< 0.3/g		

Method options listed above may be matrix dependent.

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Method Reference LI-00.738 (Coliform 30°C)	Method Name Coliform at 30°C	Sample Weight 25g	Turnaround Time 3 days (24 hour TAT*)
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Matrices and Comments

Raw materials, line samples and finished products

Method accounts for gas producing colonies only.

**If both Coliform and E.Coli is requested, using the "Both" variation the testing will be incubated at the 37°C temperature. If Coliform is needed at 30°C, must list Coliform as a separate test on the MEARs/ARF.

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested -- report will be issued in 48 hours.

Analytes	QL	UOM	Variation
Coliform Result	< 10/g		30°C
Coliform Result (Environmental)	< 100/sponge swab / < 10/q- tip swab		30°C

Method Reference NQA-06-6001	Method Name Color (Transmittance) In Juice	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Non red/purple juice

Select 430NM for white grape juices. Select 440NM for Apple/Pear/Kiwi juice

Analytes	QL	UOM	Variation
Transmittance at 430nm		%	430NM
Transmittance at 440nm		%	440NM

Method options listed above may be matrix dependent.

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Method Reference NQA-06-6002	Method Name Color In Red Grape Juice Concentrates	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Red/purple juice

Indicate dilution required; 0.500%, 2.000% or BOTH

Analytes	QL	UOM	Variation
Color at 430 nm [0.500% ± 0.003% (m/v)]			0PNT5PERCENT
Color at 430 nm [2.00% ± 0.01% (m/v)]			2PERCENT
Color at 520 nm [0.500% ± 0.003% (m/v)]			0PNT5PERCENT
Color at 520 nm [2.00% ± 0.01% (m/v)]			2PERCENT
Ratio 520nm/430nm [0.500% ± 0.003% (m/v)]			0PNT5PERCENT
Ratio 520nm/430nm [2.00% ± 0.01% (m/v)]			2PERCENT

Method Reference NQA-00-4405	Method Name Compendium Method/Spoilage Assessment	Sample Weight Original	Turnaround Time 30 days - call ahead
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Matrices and Comments

Low-acid, high acid, and acidified low-acid canned foods

Analytes	QL	UOM	Variation
Aerobic Growth/35 °C			
Aerobic Growth/55 °C			
Anerobic Growth/35 °C			
Anerobic Growth/55 °C			
Appearance			
Direct Smear			
Gross Weight			
Net Weight			
Organoleptic			
pH			
Visual Exam of Can			

Method options listed above may be matrix dependent.

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Method Reference NQA-CFIA-MFHPB-30	Method Name Confirmation of NQAC Screened Presumptive VIDAS Listeria	Sample Weight N/A	Turnaround Time 4-6 days*
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Matrices and Comments

Foods and environmental surfaces

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Listeria Final			

Method Reference LI-00.713	Method Name Confirmation of NQAC Screened Presumptive Salmonella IQ-Check	Sample Weight N/A	Turnaround Time 5 days up to 10 days with serology* (negative results may be reported sooner)
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Matrices and Comments

Raw materials, environmental samples, line and finished products samples

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Salmonella Final			

Method Reference LI-00.736	Method Name Contaminating Flora	Sample Weight 25 g	Turnaround Time 3 days
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Matrices and Comments

Samples containing probiotics

Analytes	QL	UOM	Variation
Contaminating Flora Count	<10/g		

Method options listed above may be matrix dependent.

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Method Reference EXT_COUMARIN	Method Name Coumarin*	Sample Weight 100 g	Turnaround Time ROUTINE 30
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Matrices and Comments

Spices and food products

Analytes	QL	UOM	Variation
Coumarin	1	mg/kg	

Method Reference LI-00.743	Method Name Cronobacter sakazakii	Sample Weight 300 g	Turnaround Time 4-8 days* - email ahead
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Matrices and Comments

Milk powder and milk-based infant formula, including ingredients, (semi-)finished products, processed water, and environmental samples

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Cronobacter Final			

Method Reference NQA-00.8331	Method Name Crustacean Traces by ELISA	Sample Weight n/a	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Finished food products, dairy products, cereal grains, environmental swabs

Analytes	QL	UOM	Variation
Crustaceans	100	ng/mL	Crustacea_Swabs
Crustaceans	2.5	mg/kg	Crustacea

Method options listed above may be matrix dependent.

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Method Reference LI-00.566	Method Name Detection of Gluten Traces by ELISA (Allergen)	Sample Weight original 50g	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant cereal, baby food puree, infant formula, tannin-containing products (i.e. coffee), spices, finished food products, beverages, nutritional products, gluten free flour, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations.

Analytes	QL	UOM	Variation
Gluten	5	mg/kg	Gluten
Gluten	10	ng/mL	Gluten_Swabs

Method Reference LI-00.586	Method Name Detection of Milk Traces by ELISA (Allergen)	Sample Weight n/a	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant formula, infant cereal, tannin-containing products (i.e. coffee), beverages, finished food products, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Skim Milk Powder (MSK)	100	ng/mL	Milk_Swabs
Skim Milk Powder (MSK)	2.5	mg/kg	Milk

Method Reference LI-00.759	Method Name Detection of Salmonella by IQ-Check- 375g or less	Sample Weight Any of: 25g, 100g, 125g, 150g, 250g, 325g, 375g, swabs	Turnaround Time 2 days (24 hour TAT*) Confirmation see LI-00.713
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Matrices and Comments

Raw materials, environmental, line, and finished product samples

**Cellulase media charge will be required on samples that gel, clump or coagulate during testing.

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
Salmonella Final			

Method options listed above may be matrix dependent.

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Method Reference LI-00.799	Method Name Detection of Shigatoxic E.coli (STEC)	Sample Weight 25 g / cookie dough 375g	Turnaround Time 7 days
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Matrices and Comments

Raw materials, environmental samples, line and finished products samples

Analytes	QL	UOM	Variation
STEC Result (Qualitative)	1	cell/25g	

Method Reference EXT_DEXTROSE_EQ UIVALENT	Method Name Dextrose Equivalent*	Sample Weight 50 g	Turnaround Time Routine 15
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Matrices and Comments

Food
Provide estimated levels.

Analytes	QL	UOM	Variation
Dextrose Equivalent		-	

Method options listed above may be matrix dependent.

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Method Reference EXT_DIOXINS_EUR OFINS	Method Name Dioxins (PCDD/Fs, Dioxin-like PCBs and Non Dioxin-like PCBs)*	Sample Weight 300 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Quantitation limits can vary. Method Reporting Limits (MRL's) will vary based upon results of the individual runs.

Analytes	QL	UOM	Variation
Sum of dioxins (WHO-PCDD/ F-TEQ)(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;2,3,7,8-TCDD; 1,2,3,7,8-PeCDD; 1,2,3,4,7,8-HxCDD;		pg/g	
Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB- TEQ) (PCB77, PCB81, PCB105, PCB114, PCB118, PCB123, PCB126, PCB156, PCB157, PCB167, PCB169, PCB189)		pg/g	
Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180		ng/g	

Method Reference LI-00.385	Method Name DNA Extraction for PCR Assays	Sample Weight N/A	Turnaround Time Routine 14* Rush 7*
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Matrices and Comments

Must request LI-00.047, LI-00.385 DNA Extraction will automatically be added.

No results are issued with this method. Date of extraction will be noted on report.

*Note: Please contact Customer Service for quicker results during crisis or emergency situations.

Analytes	QL	UOM	Variation
Date Analyzed			

Method options listed above may be matrix dependent.

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Method Reference ISO-7251.2005	Method Name E.coli 10 Tube MPN	Sample Weight 125 g	Turnaround Time 3 days/ Confirmed + 4 days
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Matrices and Comments

Environmental waters

Analytes	QL	UOM	Variation
Presumptive E. coli MPN Final	< 1.1/100 mL		environmental waters only

Method Reference ISO-7251.2005	Method Name E.coli 3 Tube MPN	Sample Weight 25 g	Turnaround Time 3 days/ Confirmed + 4 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals

Analytes	QL	UOM	Variation
Presumptive E. coli MPN Final	< 0.3/g		

Method Reference NQA-57-0003	Method Name E.coli O157:H7 By Request Only	Sample Weight 25g or 375g	Turnaround Time 3-8 days* - email ahead
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Matrices and Comments

Raw materials, environmental, line and finished product samples for cookie dough and related samples

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
E. coli O157:H7 Final			

Method options listed above may be matrix dependent.

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Method Reference NQA-00.8322	Method Name Egg Traces by ELISA (Allergen)	Sample Weight n/a	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant formula, tannin-containing products (i.e. coffee), nutritional products, finished food products, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Whole Egg Powder	100	ng/mL	Egg_Swabs
Whole Egg Powder	2.5	mg/kg	Egg

Method Reference LI-00.757	Method Name Enterobacteriaceae Enumeration - Pour Plate (Default-Presumptive)	Sample Weight 25 g	Turnaround Time Presumptive: 2 days (24 hour TAT* / Confirmed: +2 days)
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Matrices and Comments

Raw materials, line samples, finished products and environmental samples

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
EB Presumptive Result	< 10/g / < 1/mL		

Method Reference LI-00.758	Method Name Enterobacteriaceae Enumeration - Petrifilm (Confirmed Routine)	Sample Weight 25 g	Turnaround Time Presumptive: 2 days (24 hour TAT* / Confirmed: +2 days)
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Matrices and Comments

Raw materials, line samples, finished products and environmental samples

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
EB Final Result	< 10/g		
EB Final Result (Environmental)	< 100/sponge swab / < 10/q-tip swab		

Method options listed above may be matrix dependent.

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Method Reference LI-00.757	Method Name Enterobacteriaceae Enumeration- Pour Plate (Confirmed Routine)	Sample Weight 25 g	Turnaround Time Presumptive: 2 days (24 hour TAT* / Confirmed: +2 days)
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Matrices and Comments

Raw materials, line samples, finished products and environmental samples

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
EB Final Result	< 10/g / < 1/mL		

Method Reference LI-00.758	Method Name Enterobacteriaceae Enumeration- Petrifilm (Default-Presumptive)	Sample Weight 25 g	Turnaround Time Presumptive: 2 days (24 hour TAT* / Confirmed: +2 days)
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Matrices and Comments

Raw materials, line samples, finished products and environmental samples

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
EB Presumptive Result	< 10/g		
EB Presumptive Result (Environmental)	< 100/sponge swab / < 10/q- tip swab		

Method Reference LI-00.709	Method Name Enterobacteriaceae MPN	Sample Weight 25 g	Turnaround Time 3 days / Confirmed +3 days
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Enterobacteriaceae MPN Result	< 0.3/g		
Enterobacteriaceae Presence/Absence Final	< 0.3/g		

Method options listed above may be matrix dependent.

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Method Reference ISO-11290-2.1998	Method Name Enumeration of <i>Listeria</i>	Sample Weight 25 g	Turnaround Time 3 days / Confirmed +2 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals.

In case of presumptive result confirmation must be performed.

Analytes	QL	UOM	Variation
Listeria monocytogenes Confirmation Final	< 10/g		
Listeria monocytogenes Final Result	< 10/g		
Listeria species Confirmation Final	< 10/g		
Listeria species Final Result	< 10/g		

Method Reference LI-00.794	Method Name Enumeration of Probiotic Bacteria	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Probiotic culture powders, preblends and shelf stable finished products, like milk-based formulas, infant cereals, nutraceutical formulae or health care products

Analytes	QL	UOM	Variation
Bifidobacterium lactis BB818 Result	< 10/g		
Lactobacillus reuteri Result	< 10/g		

Method options listed above may be matrix dependent.

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Method Reference LI-00.718	Method Name Enumeration of Spores	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Raw materials, line and finished products samples

Indicate required variation.

Analytes	QL	UOM	Variation
Aerobic Mesophilic Spore Result	< 10/g / < 1/mL		Aerobic Mesophilic Raw Materials and Sterilized Products - A_MESO_100C_42C
Aerobic Mesophilic Spore Result	< 10/g / < 1/mL		Aerobic Mesophilic Non-Sterilized Products (30C Incubation) - A_MESO_80C_30C
Aerobic Mesophilic Spore Result	< 10/g / < 1/mL		Aerobic Mesophilic Non-Sterilized Products (42C Incubation) - A_MESO_80C_42C
Aerobic Thermophilic Spore Result	< 10/g / < 1/mL		Aerobic Thermophilic Raw Materials and Sterilized Products - A_THERMO_100C_55C
Aerobic Thermophilic Spore Result	< 10/g / < 1/mL		Aerobic Thermophilic Non-Sterilized Products - A_THERMO_80C_55C
Anaerobic Mesophilic Spore Result	< 10/g / < 1/mL		Anaerobic Mesophilic Raw Materials and Sterilized Products - AN_MESO_100C_42C
Anaerobic Mesophilic Spore Result	< 10/g / < 1/mL		Anaerobic Mesophilic Non-Sterilized Products (42C Incubation) - AN_MESO_80C_42C
Anaerobic Mesophilic Spore Result	< 10/g / < 1/mL		Anaerobic Mesophilic

Method options listed above may be matrix dependent.

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		Non-Sterilized Products (30C Incubation) - AN_MESO_80C_30C
Anaerobic Thermophilic Spore Result	< 10/g / < 1/mL	Anaerobic Thermophilic Non-Sterilized Products - AN_THERMO_80C_55C
Anaerobic Thermophilic Spore Result	< 10/g / < 1/mL	Anaerobic Thermophilic Raw Materials and Sterilized Products - AN_THERMO_100C_55C
Flat Sour Spore Result	< 10/g / < 1/mL	Flat Sour - FLAT_SOUR_100C_55C

Method Reference LI-00.009	Method Name Ergot Alkaloids by LC-MS/MS	Sample Weight least 100gm	Turnaround Time Routine 30
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Matrices and Comments

Raw cereals, Infant cereals

Analytes	QL	UOM	Variation
Ergot alkaloids (Total) (QN)	6	µg/kg	

Method Reference EXT_ESBO	Method Name ESBO in Food by LC-MS/MS*	Sample Weight See **	Turnaround Time Routine 30
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Matrices and Comments

Food

**All samples for packaging analyses should be tightly wrapped with 5 layers of aluminum foil (thickness: 30 to 40 µm) to avoid any loss of volatile and protect against any undesired smell which cause inaccuracy in analysis.

Analytes	QL	UOM	Variation
Epoxidized Soy Bean Oil (ESBO)	0.5	ppm	

Method options listed above may be matrix dependent.

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Method Reference Factory Investigation	Method Name Factory Investigation	Sample Weight Depends on availability	Turnaround Time N/A
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Matrices and Comments

Use of appropriate analytical tools to identify Plastics, Glass, Metals and other materials.

Email the Factory Investigations Group with details regarding the investigation objectives.

The factory investigation excludes the T&M charges and associated sample costs of the analytical tools used to perform the investigation.

Analytes	QL	UOM	Variation
Factory Investigation			

Method Reference AOAC 965.33	Method Name Fat - Peroxide Value	Sample Weight 300 g	Turnaround Time Routine 7
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Matrices and Comments

Animal and vegetable oils, fats, and to fat extracted from various products

Analytes	QL	UOM	Variation
Peroxide Value	0.09	meq/O2k	

Method Reference LI-75.204	Method Name Fat by Acid Hydrolysis	Sample Weight 30 g	Turnaround Time Routine 7
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Matrices and Comments

finished products and ingredients such as meat, cheese, flour and wheat

Analytes	QL	UOM	Variation
Fat	0.3	%	

Method options listed above may be matrix dependent.

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Method Reference LI-00.520	Method Name Fat by Mojonnier Method	Sample Weight 25 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Milk products, infant cereals, powders for beverages, chocolate and cocoa powder

Analytes	QL	UOM	Variation
Fat	0.05	g/100 g	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-1610	Method Name Fatty Acid Profile (FAP)	Sample Weight 50 g (If both FAP and Cholesterol is selected, 50 grams is sufficient)	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Finished products and pine nuts

Results are reported as grams of fat per 100 grams of product (i.e. %)

Pine nut marker fatty acids (PINE) and Diagnostic Index included for pine nut samples only

Analytes	QL	UOM	Variation
10:0 Capric	0.01	%	
12:0 Lauric	0.01	%	
13:0 Tridecanoic	0.01	%	
14:0 Myristic	0.01	%	
14:1 Myristoleic	0.01	%	
15:0 Pentadecanoic	0.01	%	
15:1 Pentadecenoic	0.01	%	
16:0 Palmitic	0.01	%	
16:1 Palmitoleic	0.01	%	
17:0 Margaric	0.01	%	
17:1 Margaroleic	0.01	%	
18:0 Stearic	0.01	%	
18:1 Oleic	0.01	%	
18:1 trans Elaidic	0.01	%	
18:2 Linoelaidic	0.01	%	
18:2 Linoleic	0.01	%	
18:2 Taxoleic	0.01	%	PINE
18:3 g-Linolenic	0.01	%	
18:3 Linolenic	0.01	%	
18:3 Pinolenic	0.01	%	PINE
20:0 Arachidic	0.01	%	
20:1 Gadoleic	0.01	%	

Method options listed above may be matrix dependent.

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20:2 Eicosadienoic	0.01	%	
20:3 Eicosatrienoic	0.01	%	
20:3 g-Eicosatrienoic	0.01	%	
20:3 Sciadonic	0.01	%	PINE
20:4 Arachidonic	0.01	%	
20:5 Eicosapentaenoic	0.01	%	
21:0 Heneicosanoic	0.01	%	
22:0 Behenic	0.01	%	
22:1 Erucic	0.01	%	
22:2 Docosadienoic	0.01	%	
22:6 Docosaheptaenoic	0.01	%	
24:0 Lignoceric	0.01	%	
24:1 Nervonic	0.01	%	
4:0 Butyric	0.01	%	
6:0 Caproic	0.01	%	
8:0 Caprylic	0.01	%	
C18:2 C,T	0.01	%	
C18:2 T,C	0.01	%	
C18:3 C,T,C	0.01	%	
C18:3 C,T,T	0.01	%	
C18:3 T,C,C	0.01	%	
C18:3 T,T,C	0.01	%	
C18:3 T,T,T	0.01	%	
cis-Monounsaturated Fat (%)	0.01	%	
cis-Polyunsaturated Fat (%)	0.01	%	
Diagnostic Index			PINE
Saturated Fat (%)	0.01	%	
Sum of Trans and Saturated Fat (%)	0.01	%	
Total Fat As Fatty Acids (%)	0.01	%	
Total Fat as Triglycerides (%)	0.01	%	
Total Linolenic Acid (%)	0.01	%	
Total Omega Fatty Acids (%)	0.01	%	

Method options listed above may be matrix dependent.

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Total Omega-3 Fatty Acids (%)	0.01	%
Total Omega-6 Fatty Acids (%)	0.01	%
Trans Fat (%)	0.01	%

Method Reference LI-21.016	Method Name Fatty Acid Profile (FAP) - MCT	Sample Weight 50 grams	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Coffee and Coffee Substitutes

Analytes	QL	UOM	Variation
10:0 Capric	<3	mg/kg	
8:0 Caprylic	<4	mg/kg	
Ratio of C8:0 to C10:0			

Method Reference EXT_FILTH_NEOTR ON	Method Name FiltH*	Sample Weight 500 g	Turnaround Time Routine 25
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Foreign material		NA	

Method Reference LI-12.504	Method Name Fluoride by Ion Selective Electrode	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Fortified clinical nutrition products and dietetic specialties products

Analytes	QL	UOM	Variation
Flouride	0.1	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_FOLIC_MICRO	Method Name Folic Acid (Microbiological assay)*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Food consisting folic acid that is naturally occurring

Analytes	QL	UOM	Variation
Folic acid	2	µg/g	

Method Reference NQA-08-3105	Method Name Folic Acid Determination by HPLC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Food products with added Folic acid

Analytes	QL	UOM	Variation
Folic Acid	8	µg/100g	

Method Reference NQA-00.8321	Method Name Fourier Transform- Infrared Spectroscopy (FT-IR)	Sample Weight Depends on availability	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Plastic's, Organic and limited Inorganic compound identification

Analytes	QL	UOM	Variation
FTIR			

Method options listed above may be matrix dependent.

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Method Reference EXT_FREE_MCPD_S INGAPORE	Method Name Free 2 & 3 MCPD*	Sample Weight	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
2-MCPD	10	µg/kg	
3-MCPD	10	µg/kg	

Method options listed above may be matrix dependent.

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Method Reference LI-00.562	Method Name Free Amino Acid or Free Methionine by IEC Chromatography	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Protein hydrolysates, clinical nutrition, infant formulas, infant cereals and similar products and amino acid vitamin premixes

GOTAG components must be specified to be included with full profile or exclusively. Methionine may be analyzed alone by selecting the FREE_METH variation.

Analytes	QL	UOM	Variation
Alanine	5	mg/100g	
Arginine	5	mg/100g	
Asparagine	5	mg/100g	GOTAG
Aspartic Acid	1	mg/100g	
Cystine	5	mg/100g	
G-Aminobutyric acid	5	mg/100g	GOTAG
Glutamic Acid	5	mg/100g	
Glutamine	5	mg/100g	GOTAG
Glycine	1	mg/100g	
Histidine	5	mg/100g	
Isoleucine	5	mg/100g	
Leucine	5	mg/100g	
Lysine	5	mg/100g	
Methionine	5	mg/100g	FREE_METH
Ornithine	5	mg/100g	GOTAG
Phenylalanine	5	mg/100g	
Proline	50	mg/100g	
Serine	1	mg/100g	
Theanine	5	mg/100g	GOTAG
Threonine	1	mg/100g	
Tyrosine	5	mg/100g	
Valine	5	mg/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-00.562_Juice	Method Name Free Amino Acid or Free Methionine Det by IEC Chromatography	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Alanine	5	mg/100g	
Arginine	5	mg/100g	
Asparagine	5	mg/100g	
Aspartic Acid	1	mg/100g	
G-Aminobutyric acid	5	mg/100g	
Glutamic Acid	5	mg/100g	
Glutamine	5	mg/100g	
Glycine	1	mg/100g	
Histidine	5	mg/100g	
Isoleucine	5	mg/100g	
Leucine	5	mg/100g	
Lysine	5	mg/100g	
Methionine	5	mg/100g	
Ornithine	5	mg/100g	
Phenylalanine	5	mg/100g	
Proline	5	mg/100g	
Serine	1	mg/100g	
Sum of Free Amino Acids	5	mg/100g	
Threonine	1	mg/100g	
Tyrosine	5	mg/100g	
Valine	5	mg/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-00.516	Method Name Free Fatty Acid by Colorimetry	Sample Weight 300 g	Turnaround Time Routine 7
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Matrices and Comments

Animal and vegetable fats and oils

Analytes	QL	UOM	Variation
Free fatty acid as Oleic	0.1	g/100g	

Method Reference LI-00.570	Method Name Free Tryptophan by HPLC	Sample Weight 25 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Milk protein hydrolysates, clinical nutrition, infant formulas and infant cereals

Analytes	QL	UOM	Variation
Free L-Tryptophan	1	mg/100g	

Method Reference LI-00.370	Method Name Furan and Alkylfurans by Headspace GC-MS	Sample Weight Original (minimum 50 g)	Turnaround Time Routine 7
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Matrices and Comments

Fruits juices, baby foods in jars, canned foods, breakfast cereals, bread, french fries, pet food, soluble coffee, roasted and ground coffee and coffee surrogates

Analytes	QL	UOM	Variation
2-Methylfuran	5	µg/kg	
3-Methylfuran	5	µg/kg	
Furan	5	µg/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_FURFURL_ECA L	Method Name Furfuryl Alcohol*	Sample Weight 300 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Furfuryl	0.5	ppm	

Method Reference LI-00.039_GLY	Method Name Glyphosate, AMPA and Glufosinate (FMOC)	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Cereals (high starch content), fruits and vegetables (high water content), fruit juice concentrate, dry fruits and honey (high sugar content) and powdered milk- and soy-based infant formulas (dairy products)

This method is not suitable to determine gum based, crushed garlic, and dried/powder red pepper.

We will attempt to run any matrix; however, if they do not meet the acceptance criteria established by the matrices that are validated then the matrix will be considered not compatible with this method or increased QL's may be reported.

Analytes	QL	UOM	Variation
AMPA	0.010 / (0.050 for Dairy)	mg/kg	
Glufosinate	0.010 / (0.050 for Dairy)	mg/kg	
Glyphosate	0.010 / (0.050 for Dairy)	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference LI-00.405	Method Name GM-Maize quantification by RTi-PCR	Sample Weight 50g	Turnaround Time Routine 14
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Matrices and Comments

Matrices requirements same as
LI-00.386 GMO Identification

Result:

% of GM-maize vs total maize

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Bt11	0.05	%, (m/m)	
Bt176	0.04	%, (m/m)	
DAS59122	0.07	%, (m/m)	
DP-98140	0.05	%, (m/m)	
GA21	0.05	%, (m/m)	
MIR604	0.05	%, (m/m)	
MON810	0.02	%, (m/m)	
MON863	0.07	%, (m/m)	
MON88017	0.05	%, (m/m)	
MON89034	0.05	%, (m/m)	
NK603	0.05	%, (m/m)	
T25	0.07	%, (m/m)	

Method options listed above may be matrix dependent.

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Method Reference LI-00.386	Method Name GMO Identification by RTi-PCR	Sample Weight N/A	Turnaround Time Routine 14* Rush 7*
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Matrices and Comments

The method is applicable to all DNA extracted with LI-00.385 from raw materials and derivatives (such as flour, semolina, grits) or finished products (including pet food).

Must request LI-00.047. If LI-00.047 has a detection, LI-00.386 will automatically be triggered by the laboratory for confirmation testing. This is an additional cost.

If quantification is needed, contact Customer Service. We offer LI-00.390, LI-00.397, and LI-00.405 for certain events.

*Note: Please contact Customer Service for quicker results during crisis or emergency situations.

Analytes	QL	UOM	Variation
3272 GM-maize	0.1	%	
5307 GM-maize	0.07	%	
A2704-12 GM-soya	0.01	%	
A5547-127 GM-soya	0.03	%	
Bar	0.1	%	
BPS-CV127-9 GM-soya	0.01	%	
Bt11 GM-maize	0.1	%	
Bt176 GM-maize	0.07	%	
Cotton	0.03	%	
Cry1Ab	0.01	%	
CTP2-Cp4epsps	0.01	%	
DAS-40278-9 GM-maize	0.1	%	
DAS-59122-7 GM-maize	0.1	%	
DAS-68416-4 GM-soya	0.01	%	
DP-305423 GM-soya	0.01	%	
DP-356043 GM-soya	0.01	%	
DP-98140 GM-maize	0.05	%	
FG72 GM-soya	0.01	%	
GA21 GM-maize	0.05	%	
LY038 GM-maize	0.07	%	
Maize	0.07	%	

Method options listed above may be matrix dependent.

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MIR162 GM-maize	0.07	%
MIR604 GM-maize	0.1	%
MON810 GM-maize	0.1	%
MON863 GM-maize	0.1	%
MON87427 GM-maize	0.04	%
MON87460 GM-maize	0.14	%
MON87701 GM-soya	0.01	%
MON87708 GM-soya	0.01	%
MON87751 GM-soya	0.04	%
MON87751 GM-soya	0.04	%
MON87769 GM-soya	0.01	%
MON88017 GM-maize	0.07	%
MON89034 GM-maize	0.14	%
MON89788 GM-soya	0.06	%
NK603 GM-maize	0.1	%
p-35S	0.01	%
Pat	0.01	%
PLANT	0.001	%
Potato	0.03	%
Rapeseed	0.06	%
Rice	0.005	%
RRS GM-soya	0.01	%
Soya	0.01	%
T25 GM-maize	0.14	%
TC1507 GM-maize	0.05	%
t-NOS	0.03	%
VCO-1981-5 GM-maize	0.01	%

Method options listed above may be matrix dependent.

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Method Reference LI-00.047	Method Name GMO Screening by FAST real-Time PCR	Sample Weight 50 grams	Turnaround Time Routine 14* Rush 7*
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Matrices and Comments

The method is applicable to all DNA extracted with LI-00.385 from raw materials and derivatives (such as flour, semolina, grits) or finished products (including pet food).

Reported as LOD.

When LI-00.047 is requested, LI-00.385 DNA Extraction will be included. This is a separate cost.

If none of these GM-markers is present, the result will be
Detection of GMO = NOT DETECTED, and the analyses will be stop at this step.

If at least one of these GM-markers is present, the result will be
Detection of GMO = DETECTED, and the analyses will continue with LI-00.386 identification.

*Note: Please contact Customer Service for quicker results during crisis or emergency situations.

Analytes	QL	UOM	Variation
Detection of GMO	0.08	%	

Method Reference LI-00.390	Method Name GM-soya quantification by RTi-PCR	Sample Weight 50 g	Turnaround Time Routine 14
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Matrices and Comments

Matrices requirements same as
LI-00.386 GMO Identification

Result:
% of GM-soya vs total soya

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
GM soya A2704-12	0.01	%, (m/m)	
GM soya DP-305423	0.01	%, (m/m)	
GM soya DP-356043	0.05	%, (m/m)	
GM soya MON87701	0.05	%, (m/m)	
GM soya MON89788	0.01	%, (m/m)	
GM soya RRS	0.05	%, (m/m)	

Method options listed above may be matrix dependent.

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Method Reference NQA-00.8329	Method Name Hazelnut Traces by ELISA	Sample Weight Original (50 grams)	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Cookies, chocolate bars, ice cream, cereals, environmental swabs

Analytes	QL	UOM	Variation
Hazelnut	2.5	mg/kg	Hazelnut
Hazelnut	100	ng/mL	Hazelnut_Swabs

Method Reference NQA-00-6811	Method Name Headspace Oxygen by Mocon Analyzer	Sample Weight Original	Turnaround Time Routine 7
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Matrices and Comments

sealed packages

Analytes	QL	UOM	Variation
Headspace O2	0.2	%	

Method Reference EXT_HEAT_RESITANT_MOLD	Method Name Heat Resistant Mold*	Sample Weight 130 g	Turnaround Time Routine 30
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Matrices and Comments

N/A

Analytes	QL	UOM	Variation
Heat Resistant Mold result		N/A	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-3660HMPK	Method Name Heavy Metals in Packaging	Sample Weight 25 g of Original Packaging	Turnaround Time Routine 30
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Matrices and Comments

Food packaging materials

Estimated QLs are representative of best case scenario, Packaging samples are subject to a wide variety of interferences. These interferences can adversely affect the QLs.

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Cadmium	4	µg/kg	
Chromium	20	µg/kg	
Lead	4	µg/kg	
Mercury	2	µg/kg	

Method Reference EXT_HEXANAL_ECA L	Method Name Hexanal*	Sample Weight 20 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Hexanal	0.1	mg/kg	

Method Reference EXT_BROMIDE_ECA L	Method Name Inorganic Bromine*	Sample Weight 20 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Methyl bromide	3	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference NQA-01-6025	Method Name Inositol and Taurine in Vitamin Premix by HPLC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Vitamin premix and water

Inositol and Taurine can be selected independently or together Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Inositol	10	mg/g	INOSITOL
Taurine	10	mg/g	TAURINE

Method Reference LI-00.684	Method Name Inositol by Gas Chromatography	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Infant formula, milk powders, health care products, soya-based and baby food products

Analytes	QL	UOM	Variation
Inositol	1	mg/100g	

Method Reference NQA-06-6030	Method Name Insoluble Solids (Pulp Determination) in Citrus Juices and Concentrates	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Pulp	4	%	

Method options listed above may be matrix dependent.

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Method Reference EXT_ACID_INSOLUBLE	Method Name Insoluble Substances*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Ash	0.1	%	

Method Reference AOAC 2011.25	Method Name Insoluble, Soluble and Total Dietary Fiber in Foods (CODEX Definition)	Sample Weight 100 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Applicable to plant materials, foods, food ingredients and raw materials consistent with the CODEX Fiber Definition including naturally occurring, isolated, modified, and synthetic polymers meeting the fiber definition. Plant materials include grains, cereals, fruits and vegetables.

Analytes	QL	UOM	Variation
Insoluble Fiber	0.5	g/100g	
Soluble Fiber	0.5	g/100g	
Total Dietary Fiber	0.5	g/100g	

Method Reference EXT_COVANCE	Method Name Iodine Value*	Sample Weight 30 g	Turnaround Time Routine 12
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Matrices and Comments

Fat and oils

Not compatible with conjugate fats or emulsifiers.

Analytes	QL	UOM	Variation
Iodine Value		g Iodine absorbed by 100 g sample	

Method options listed above may be matrix dependent.

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Method Reference NQA-06-8108	Method Name Isocitric Acid Enzymatic Determination	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice concentrates, juice purees, juice pulps and other similar products

Analytes	QL	UOM	Variation
Isocitric Acid	3	mg/100g	

Method Reference NQA-00-2510	Method Name Juice Carbohydrates by HPAE Chromatography	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Fructose	0.1	g/100g	
Glucose	0.1	g/100g	
Glucose:Fructose Ratio			
Glucose:Total Sugar Ratio			
Sorbitol	0.1	g/100g	
Sorbitol:Total Sugar Ratio			
Sucrose	0.1	g/100g	
Sucrose:Total Sugar Ratio			
Total Sugars	0.1	g/100g	

Method options listed above may be matrix dependent.

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Method Reference EXT_KARLFISCHER	Method Name Karl Fischer Moisture*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Karl Fischer Moisture	0.1	%	

Method Reference LI-00.731	Method Name Lactic Acid Bacteria	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Raw materials, line and finished product samples

Analytes	QL	UOM	Variation
LAB Result	< 10/g / < 1/mL		

Method Reference OM-AOAC-2015.10	Method Name L-Carnitine & Choline by LC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Infant formula (soy- and milk-based), healthcare products and milk/soy-based raw materials. Pet food (wet and dry)

L-Carnitine and Choline can be selected independently or together. Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Choline, total	1	mg/100g	CHOLINE_ONLY
L-Carnitine, total	0.5	mg/100g	L-CARNITINE_ONLY

Method options listed above may be matrix dependent.

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Method Reference ISO-11290-1:1996 (for Plates and Slants)	Method Name Listeria Confirmation - For Plates and Slants	Sample Weight Plate, Slant, or Broth	Turnaround Time 4-10 days*
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Matrices and Comments

Plates, slants, or broths with presumptive growth

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Listeria Final			

Method Reference ISO-11290-1:1996	Method Name Listeria Confirmation of NQAC Screened Presumptive LPT Listeria	Sample Weight N/A	Turnaround Time 4-10 days*
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Matrices and Comments

Products intended for human consumption and for the feeding of animals

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Listeria Final			

Method Reference LI-00.705-FS	Method Name Listeria Full Speciation VIDAS LPT	Sample Weight Either of: 25 g, 100g, 125g, swabs	Turnaround Time 2 days (30 hour TAT*) Confirmation see ISO-11290- 1:1996
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Matrices and Comments

Food/swab

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
Listeria Final - Full Speciation			25g, 100g, 125g, swabs

Method options listed above may be matrix dependent.

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Method Reference LI-00.705-PREP	Method Name Listeria Set Up Analysis	Sample Weight 100g/125 g	Turnaround Time
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Matrices and Comments

For LI-00.705 or LI-00.705-FS **This charge will be added to each replicate for the 100g or 125g weight requirement
 *Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
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Method Reference LI-00.705	Method Name Listeria spp. VIDAS LPT	Sample Weight Either of: 25g, 100g, 125g, swabs	Turnaround Time 2 days (30 hour TAT*) Confirmation see ISO-11290- 1:1996
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Matrices and Comments

Food/swab

*Overall turnaround time sample will mimic the longest turnaround time of the analyses requested. Ex: Only 24 hr tests requested - report will be issued in 24 hrs. 24 hr test and 48 hr test requested - report will be issued in 48 hours.

Analytes	QL	UOM	Variation
Listeria Final - Genus Only			25g, 100g, 125g, swabs

Method Reference NQA-06-8113	Method Name L-Malic Acid Enzymatic Determination	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice concentrates, juice purees, juice pulps and other similar products

Analytes	QL	UOM	Variation
Malic Acid	CALC	mg/100g	

Method options listed above may be matrix dependent.

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Method Reference EXT_LOSS_ON_DRY ING	Method Name Loss on Drying*	Sample Weight 100 g	Turnaround Time Routine 12
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Loss on Drying		%	

Method Reference MATRIX_VERIFICA TION	Method Name Matrix Verification	Sample Weight 300 g	Turnaround Time 5-7 days
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Matrices and Comments

New matrix types

Analytes	QL	UOM	Variation
Verification			

Method options listed above may be matrix dependent.

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Method Reference LI-00.002	Method Name Meat Authenticity by LCD Array (Qualitative)	Sample Weight 225g	Turnaround Time Please contact Customer Service for more details
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Matrices and Comments

Meat, raw materials (raw meat, ground meat & powders) and cooked meat
 Not applicable to meat extract, meat bouillon, meat juice, meat sauce, meat flavor which are unlikely to contain residual DNA.

Analytes	QL	UOM	Variation
Beef meat identification	1	%	
Bison meat identification	1	%	
Brown rat meat identification	1	%	
Camel meat identification	1	%	
Cat meat identification	1	%	
Chicken meat identification	1	%	
Dog meat identification	1	%	
Emu meat identification	1	%	
Equine meat identification	1	%	
Fallow deer meat identification	1	%	
Giraffe meat identification	1	%	
Goat meat identification	1	%	
Goose meat identification	1	%	
Guinea fowl meat identification	1	%	
Hare meat identification	1	%	
Kangaroo meat identification	1	%	
Kudu meat identification	1	%	
Llama meat identification	1	%	
Mallard duck meat identification	1	%	
Muscovy duck meat identification	1	%	
Ostrich meat identification	1	%	
Pigeon meat identification	1	%	
Pork meat identification	1	%	
Rabbit meat identification	1	%	

Method options listed above may be matrix dependent.

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Red deer meat identification	1	%
Red fox meat identification	1	%
Reindeer meat identification	1	%
Roe deer meat identification	1	%
Sheep meat identification	1	%
Springbok meat identification	1	%
Turkey meat identification	1	%
Water buffalo meat identification	1	%

Method Reference LI-00.176	Method Name Melamine & Cyanuric Acid in Food by LC-MS/MS	Sample Weight 10 g	Turnaround Time Routine 7
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Cyanuric Acid	0.05	mg/kg (ppm)	
Melamine	0.05	mg/kg (ppm)	
Sum of Melamine and Cyanuric Acid	0.05	mg/kg (ppm)	

Method Reference LI-80.078	Method Name Melamine in Packaging by LC-MS/MS	Sample Weight Minimum of 6 Original Containers	Turnaround Time Routine 30
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Matrices and Comments

Internally coated cans and other coated containers, paperboards, laminates and promotional items containing melamine (spoons, bowls, etc.)

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Melamine	0.5	µg/dm ²	

Method options listed above may be matrix dependent.

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Method Reference DOP-759-1003	Method Name Microorganism Identification	Sample Weight Plate or Slant	Turnaround Time Organism Dependent (7 - 10 days)
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Matrices and Comments

N/A

Analytes	QL	UOM	Variation
Microbial Identification			

Method Reference Microscopy	Method Name Microscopy	Sample Weight Depends on availability	Turnaround Time Routine 21 Rush 10
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Matrices and Comments

Used for routine examination of the structure of the sample and for documentation purposes.

Analytes	QL	UOM	Variation
Microscopy			

Method Reference EXT_MINERAL_OIL _FOOD	Method Name Mineral Oil in Food*	Sample Weight 2 Original containers	Turnaround Time Routine 30
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Matrices and Comments

Cocoa beans and liquor, all kind of fatty products

Analytes	QL	UOM	Variation
MOAH C15 to C24	0.6	mg/kg biphenyl eq	
MOSH C15 to C24	1	mg/kg bicyclohex eq	

Method options listed above may be matrix dependent.

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Method Reference EXT_MINERAL_OIL _PACKAGING	Method Name Mineral Oil in Packaging*	Sample Weight 1 Original container	Turnaround Time Routine 30
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Matrices and Comments

Paperboards

**All samples for packaging analyses should be tightly wrapped with 5 layers of aluminum foil (thickness: 30 to 40 µm) to avoid any loss of volatile and protect against any undesired smell which cause inaccuracy

Analytes	QL	UOM	Variation
DIPN (Qualitative)			
MOAH C16 to C24	25	mg/kg biphenyl eq	
MOAH C16 to C34	25	mg/kg biphenyl eq	
MOSH C16 to C24	30	mg/kg bicyclohex eq	
MOSH C16 to C34	30	mg/kg bicyclohex eq	

Method Reference LI-50.011	Method Name Moisture and Total Solids in Foods and Raw Materials	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Dry, liquid or moist products, and some raw materials

Not applicable to oil based/gum based sample

Analytes	QL	UOM	Variation
Moisture	0.05	%	
Total Solids	0.05	%	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-4100	Method Name Mold & Yeast Pour Plate	Sample Weight 25 g	Turnaround Time 6 days
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Mold Result	< 10/g / < 1/mL		
Mold Result (Environmental)	< 100/sponge swab / < 10/q-tip swab		
Yeast Result	< 10/g / < 1/mL		
Yeast Result (Environmental)	< 100/sponge swab / < 10/q-tip swab		

Method Reference EXT_MOLD_ID	Method Name Mold Identification*	Sample Weight Plate or Slant	Turnaround Time Organism Dependent (minimum 30 days)
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Matrices and Comments

N/A

Analytes	QL	UOM	Variation
Identification Method		N/A	
Mold ID		N/A	

Method Reference NQA-00.8327	Method Name Mustard Traces by ELISA	Sample Weight n/a	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Spices, sauces, dressings, meats, infant formulas, finished food products, environmental swabs
 **Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Mustard	100	ng/mL	Mustard_Swabs
Mustard	2.5	mg/kg	Mustard

Method options listed above may be matrix dependent.

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Method Reference LI-00.185-1	Method Name Mycotoxins in Foodstuffs by LC-MS/MS	Sample Weight 1 kg If nuts, 10 lb required	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Corn, cocoa, sunflower oil, infant formula, peanut, paprika and green coffee

An application of the method to matrices not covered by this scope of application requires an additional validation.

Mycotoxin QL's vary depending on the matrix type and preparation procedure - please indicate required limit.

When selecting LI-00.185-1 please select any combination of B&G, M1, OTA.

Analytes	QL	UOM	Variation
Aflatoxin B1	0.025 - 1.0	ppb	B&G ONLY
Aflatoxin B2	0.025 - 1.0	ppb	B&G ONLY
Aflatoxin G1	0.025 - 1.0	ppb	B&G ONLY
Aflatoxin G2	0.025 - 1.0	ppb	B&G ONLY
Aflatoxin M1	0.025 - 1.0	ppb	M1 ONLY
Ochratoxin A	0.025 - 1.0	ppb	OTA ONLY
Total Aflatoxins B&G	0.025 - 1.0	ppb	B&G ONLY

Method options listed above may be matrix dependent.

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Method Reference LI-00.185-2	Method Name Mycotoxins in Foodstuffs by LC-MS/MS (screen)	Sample Weight 1 kg If nuts, 10 lb required	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Corn, cocoa, sunflower oil, infant formula, peanut, paprika and green coffee

An application of the method to matrices not covered by this scope of application requires an additional validation.
Mycotoxin QL's vary depending on the matrix type and preparation procedure - please indicate required limit.

When selecting LI-00.185-1 please select any combination of B&G, M1, OTA.

Analytes	QL	UOM	Variation
3 and 15 Acetyldeoxynivalenol (Total)	100	ppb	
Aflatoxin B1	1	ppb	
Aflatoxin B2	1	ppb	
Aflatoxin G1	1	ppb	
Aflatoxin G2	1	ppb	
Deoxynivalenol (DON/Vomitoxin)	25-50	ppb	
Fumonisin B1	25-50	ppb	
Fumonisin B2	25-50	ppb	
HT-2	5 - 25	ppb	
Nivalenol	100	ppb	
Ochratoxin A	0.5-1.0	ppb	
T2	5 - 25	ppb	
Total Aflatoxins B&G	1	ppb	
Total Fumonisins	25-50	ppb	
Total T2 & HT-2	5 - 25	ppb	
Zearalenone (ZON)	1-20	ppb	

Method options listed above may be matrix dependent.

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Method Reference EXT_NEOMYCIN	Method Name Neomycin/Gentamicin*	Sample Weight 300g total needed for all vet drugs offered at NQAC Cergy	Turnaround Time Routine 30
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Matrices and Comments

Meat, fish except dehydrated

Initial Analysis is a qualitative screening of the compound class - in the event of a positive or doubtful result the quantitative screen will be performed, incurring additional charge.

Analytes	QL	UOM	Variation
Gentamycin	10	µg/kg	
Neomycin	10	µg/kg	

Method Reference OM-AOAC-2011.14	Method Name Nine Nutritional Elements by ICP-OES	Sample Weight 25 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Fortified foods such as infant formula, infant cereals, baby foods, milk and cereals based products, beverages and powder beverages with cocoa, culinary products, refrigerated meals, healthcare products, pet foods and raw materials such as added food grade salts and tastemakers

Indicate each element required

The QL's are dependent on the matrix

Analytes	QL	UOM	Variation
Calcium (Ca)		mg/100g	
Copper (Cu)		mg/100g	
Iron (Fe)		mg/100g	
Magnesium (Mg)		mg/100g	
Manganese (Mn)		mg/100g	
Phosphorus (P)		mg/100g	
Potassium (K)		mg/100g	
Salt as Sodium (Na)	0.01	%	
Sodium (Na)		mg/100g	
Zinc (Zn)		mg/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-SGRL-99.026	Method Name Nitrite by Spectrophotometer and Nitrate by HPLC	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Liquid and powdered milk, infant and dietetic products, whole and demineralised whey powder, caseins, caseinates, fruits and vegetables

Analytes	QL	UOM	Variation
Nitrate	4	mg/kg	
Nitrite	0.3	mg/kg	

Method Reference EXT_NITROFURANS _ECAL	Method Name Nitrofurans Metabolites*	Sample Weight 50 g	Turnaround Time Routine 10
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Matrices and Comments

Honey, meat, fish, eggs

Analytes	QL	UOM	Variation
1-aminohydantoin (AH)	1	µg/kg	
3-amino-2-oxazolidone (AOZ)	1	µg/kg	
3-amino-5-morphol.meth-2-oxazol. (AMOZ)	1	µg/kg	
Semicarbazide (SC)	1	µg/kg	

Method Reference LI-00.561	Method Name Non-Protein Nitrogen	Sample Weight 25 g	Turnaround Time Routine 7
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Matrices and Comments

Food

Must be run with either LI-00.556 or LI-00.557.

Analytes	QL	UOM	Variation
Non Protein Nitrogen as g/100g of Total Nitrogen		g/100g	

Method options listed above may be matrix dependent.

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Method Reference EXT_NOROVIRUS_1	Method Name Norovirus and Hepatitis A*	Sample Weight 200 g	Turnaround Time Routine 30
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Matrices and Comments

Food, raw materials

Analytes	QL	UOM	Variation
Hepatitis A		N/A	
Norovirus genogroup I		N/A	
Norovirus genogroup II		N/A	

Method Reference EXT_NOROVIRUS_2	Method Name Norovirus, Hepatitis A, & Rotovirus*	Sample Weight 200 g	Turnaround Time Routine 30
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Matrices and Comments

Food, raw materials

Analytes	QL	UOM	Variation
Hepatitis A		N/A	
Norovirus genogroup I		N/A	
Norovirus genogroup II		N/A	
Rotovirus		N/A	

Method options listed above may be matrix dependent.

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Method Reference LI-00.606	Method Name Nucleotides by UPLC-MS/MS	Sample Weight 50 g (separate container required for liquids)	Turnaround Time Routine 14
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Matrices and Comments

Infant formula powder, liquid, specialties, premix and raw materials

Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Adenosine 5'-Monophosphate (5-AMP)	0.2	mg/100g	
Cytidine 5'-Monophosphate (5-CMP)	0.2	mg/100g	
Guanosine 5'-Monophosphate (5-GMP)	0.2	mg/100g	
Inosine 5'-Monophosphate (5-IMP)	0.2	mg/100g	
Uridine 5'-Monophosphate (5-UMP)	0.2	mg/100g	

Method Reference LI-80.017	Method Name Olfactory Check of Packaging Material	Sample Weight 10 ft. for Flexible Materials 200 g for Rigid Materials	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food packaging materials

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Median Score		N/A	

Method options listed above may be matrix dependent.

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Method Reference NQA-06-5550	Method Name Oligosaccharides Profile by High Resolution Capillary GC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Not applicable for Sweet Potato Juice/Puree samples

Analytes	QL	UOM	Variation
Cellobiose	100	ppm	
High Fructose Corn Syrup from Inulin (Fructulose)	1	%	
Invert Sugar (IS2)	5	%	
IS2/IS1 ratio			
Isomaltose	100	ppm	
Maltose	100	ppm	

Method Reference NQA-06-8100	Method Name Organic Acids - Fruit Juices/Purees,	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Fumaric Acid	1	mg/100g	
Quinic Acid	4	mg/100g	
Tartaric Acid	1	mg100g	
Total Malic Acid	1	mg/100g	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-5205	Method Name Organochlorine Pesticide Residues in Soil	Sample Weight 50 g	Turnaround Time Routine 30
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Matrices and Comments

Soil

Analytes	QL	UOM	Variation
A-Chlordane	0.001	mg/kg	
Aldrin	0.001	mg/kg	
Aldrin+Dieldrin+Chlordane	0.001	mg/kg	
BHC-Alpha	0.001	mg/kg	
BHC-Beta	0.001	mg/kg	
BHC-Delta	0.001	mg/kg	
Chlorphyifos	0.001	mg/kg	
DDD (pp)	0.001	mg/kg	
DDE (pp)	0.001	mg/kg	
DDT (pp)	0.001	mg/kg	
Dieldrin	0.001	mg/kg	
Endosulfan I	0.001	mg/kg	
Endosulfan II	0.001	mg/kg	
Endosulfan Sulfate	0.001	mg/kg	
Endrin	0.001	mg/kg	
G-Chlordane	0.001	mg/kg	
Heptachlor	0.001	mg/kg	
Heptachlor Expoxide (Cis)	0.001	mg/kg	
Lindane	0.001	mg/kg	
Pesticide Ratio			
Total BHCs	0.001	mg/kg	
Total DDT	0.001	mg/kg	
Total Heptachlor	0.001	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference LI- 00.957_OSA30_LT4.0	Method Name OSA, pH < 4.0 (high acid) 30C - please specify expected pH	Sample Weight Original	Turnaround Time After Incubation - 8 days
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Matrices and Comments

Low acid UHT type products: aseptically filled in hermetically sealed containers (e.g. liquid infant formulas, UHT milk, etc.), retort products (e.g. canned evaporated milk, canned pet food, baby food in glass bottles), commercially sterile high acid products

Analytes	QL	UOM	Variation
Commercial Sterility			

Method Reference LI- 00.957_OSA30_LT4.5	Method Name OSA, pH < 4.5 (acid) 30C - please specify expected pH	Sample Weight Original	Turnaround Time After Incubation - 6 days
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Matrices and Comments

Low acid UHT type products: aseptically filled in hermetically sealed containers (e.g. liquid infant formulas, UHT milk, etc.), retort products (e.g. canned evaporated milk, canned pet food, baby food in glass bottles), commercially sterile high acid products

Analytes	QL	UOM	Variation
Commercial Sterility			

Method options listed above may be matrix dependent.

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Method Reference NQA-00-4420	Method Name Osmophilic Mold & Yeast	Sample Weight 25g	Turnaround Time 6 days
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Osmo Mold Result	< 10/g / < 1/mL		
Osmo Mold Result (Environmental)	< 100/sponge swab / < 10/q-tip swab		
Osmo Yeast Result	< 10/g / < 1/mL		
Osmo Yeast Result (Environmental)	< 100/sponge swab / < 10/q-tip swab		

Method Reference Other	Method Name Other	Sample Weight Depends on availability	Turnaround Time Test Dependent
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Matrices and Comments

We are also able to utilize our full portfolio to strategically analyze the sample to determine composition and identity.

Analytes	QL	UOM	Variation

Method Reference OM-ISO-20639:2015	Method Name Pantothenic Acid by UPLC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Food products with added Pantothenic acid, vitamin premix

Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Pantothenic Acid	0.1	mg/100g	

Method options listed above may be matrix dependent.

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Method Reference EXT_PARTICLE_DIS T	Method Name Particle Size Distribution by Laser Diffraction*	Sample Weight 50 g	Turnaround Time Routine 30
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Matrices and Comments

Powders and liquids

Analytes	QL	UOM	Variation
10th Percentile Particle Size		µm	
50th Percentile (Median) Particle Size		µm	
90th Percentile Particle Size		µm	
Full Distribution Report			

Method Reference EXT_PARTICLE_SC RN_CRETE	Method Name Particle Size Screening*	Sample Weight 100 g	Turnaround Time Routine 15
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Matrices and Comments

Please indicate specific screen sizes needed.

Analytes	QL	UOM	Variation
% Retained on Screen #		%	

Method Reference LI-00.219	Method Name Patulin by LC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juices, purees, infant cereals and yogurts of apple or pear, pear concentrates, raw apples, apple flakes and dried apples

Analytes	QL	UOM	Variation
Patulin	0.7	µg/kg	

Method options listed above may be matrix dependent.

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Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.957_PCA30	PCA, pH \geq 4.5 (low acid) 30C - please specify expected pH	Original	After Incubation - 4 days

Matrices and Comments

Low acid UHT type products: aseptically filled in hermetically sealed containers (e.g. liquid infant formulas, UHT milk, etc.), retort products (e.g. canned evaporated milk, canned pet food, baby food in glass bottles), commercially sterile high acid products

Analytes	QL	UOM	Variation
Commercial Sterility			

Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.957_PCA42	PCA, pH \geq 4.5 (low acid) 42C - please specify expected pH	Original	After Incubation - 4 days

Matrices and Comments

Low acid UHT type products: aseptically filled in hermetically sealed containers (e.g. liquid infant formulas, UHT milk, etc.), retort products (e.g. canned evaporated milk, canned pet food, baby food in glass bottles), commercially sterile high acid products

Analytes	QL	UOM	Variation
Commercial Sterility			

Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.957_PCA55	PCA, pH \geq 4.5 (low acid) 55C - please specify expected pH	Original	After Incubation - 3 days

Matrices and Comments

Low acid UHT type products: aseptically filled in hermetically sealed containers (e.g. liquid infant formulas, UHT milk, etc.), retort products (e.g. canned evaporated milk, canned pet food, baby food in glass bottles), commercially sterile high acid products

Analytes	QL	UOM	Variation
Commercial Sterility			

Method options listed above may be matrix dependent.

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Method Reference NQA-00.8323	Method Name Peanut Traces by ELISA (Allergen)	Sample Weight original 50g	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant formula, tannin-containing products (tea, coffee), nutritional drinks, finished food products, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Peanut	2.5	mg/kg	Peanut
Peanut	100	ng/mL	Peanut_Swabs

Method Reference EXT_PECAN	Method Name Pecan (as allergen)*	Sample Weight Original (minimum 100 g)	Turnaround Time Routine 7
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Matrices and Comments

Food and swabs

Requires a negative control sample when submitting a food sample matrix.

Analytes	QL	UOM	Variation
Pecan	2.5	ppm	

Method options listed above may be matrix dependent.

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Method Reference NQA-54-0003	Method Name Pesticide Residues by Electrospray LC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food

This method is not suitable to determine black pepper, clove, cumin seed, ginger extract, ginger powder, rosemary, ground rosemary, white pepper, peppercorn, nutmeg, and oleoresin.

QL may vary based on matrix effects. Some pesticides may be reported as "Not Determinable" if interferences or matrix effects prevent detection/quantitation.

Analytes	QL	UOM	Variation
2,4,5-T	0.01 - 0.1	mg/kg	
2,4,5-TP	0.01 - 0.1	mg/kg	
2,4-D	0.01 - 0.1	mg/kg	
2,4-DB	0.01 - 0.1	mg/kg	
abamectin	0.01 - 0.1	mg/kg	
acephate	0.01 - 0.1	mg/kg	
acequinocyl	0.01 - 0.1	mg/kg	
acetamiprid	0.01 - 0.1	mg/kg	
acibenzolar-S-methyl	0.01 - 0.1	mg/kg	
acrinathrin	0.01 - 0.1	mg/kg	
alachlor	0.01 - 0.1	mg/kg	
aldicarb	0.01 - 0.1	mg/kg	
aldicarb sulfone	0.01 - 0.1	mg/kg	
aldicarb sulfoxide	0.01 - 0.1	mg/kg	
ametryn	0.01 - 0.1	mg/kg	
aminocarb	0.01 - 0.1	mg/kg	
amitraz	0.01 - 0.1	mg/kg	
atrazine	0.01 - 0.1	mg/kg	
azaconazole	0.01 - 0.1	mg/kg	
azinthos-ethyl	0.01 - 0.1	mg/kg	
azinthos-methyl	0.01 - 0.1	mg/kg	
azoxystrobin	0.01 - 0.1	mg/kg	
benalaxyl	0.01 - 0.1	mg/kg	

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bendiocarb	0.01 - 0.1	mg/kg
bensulide	0.01 - 0.1	mg/kg
bentazon	0.01 - 0.1	mg/kg
benzoximate	0.01 - 0.1	mg/kg
bifenazate	0.01 - 0.1	mg/kg
bifenox	0.01 - 0.1	mg/kg
bifenthrin	0.01 - 0.1	mg/kg
bitertanol	0.01 - 0.1	mg/kg
boscalid	0.01 - 0.1	mg/kg
bromacil	0.01 - 0.1	mg/kg
bromophos-ethyl	0.01 - 0.1	mg/kg
bromophos-methyl	0.01 - 0.1	mg/kg
bromuconazole	0.01 - 0.1	mg/kg
bupirimate	0.01 - 0.1	mg/kg
buprofezin	0.01 - 0.1	mg/kg
butachlor	0.01 - 0.1	mg/kg
butafenacil	0.01 - 0.1	mg/kg
butocarboxim	0.01 - 0.1	mg/kg
butocarboxim sulfoxide	0.01 - 0.1	mg/kg
butoxycarboxim	0.01 - 0.1	mg/kg
cadusafos	0.01 - 0.1	mg/kg
carbaryl	0.01 - 0.1	mg/kg
carbendazim	0.01 - 0.1	mg/kg
carbetamide	0.01 - 0.1	mg/kg
carbofuran	0.01 - 0.1	mg/kg
carbofuran, 3-hydroxy	0.01 - 0.1	mg/kg
carbofuran, 3-keto	0.01 - 0.1	mg/kg
carbophenothion	0.01 - 0.1	mg/kg
carboxin	0.01 - 0.1	mg/kg
carfentrazone-ethyl	0.01 - 0.1	mg/kg
chlorantraniliprole	0.01 - 0.1	mg/kg
chlorfenvinphos	0.01 - 0.1	mg/kg

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chlorfluazuron	0.01 - 0.1	mg/kg
chlorotoluron	0.01 - 0.1	mg/kg
chloroxuron	0.01 - 0.1	mg/kg
chlorpyrifos	0.01 - 0.1	mg/kg
chlorpyrifos-methyl	0.01 - 0.1	mg/kg
clethodim	0.01 - 0.1	mg/kg
clofentezine	0.01 - 0.1	mg/kg
clothianidin	0.01 - 0.1	mg/kg
coumaphos	0.01 - 0.1	mg/kg
cyanazine	0.01 - 0.1	mg/kg
cyazofamid	0.01 - 0.1	mg/kg
cycluron	0.01 - 0.1	mg/kg
cyflufenamide	0.01 - 0.1	mg/kg
cymoxanil	0.01 - 0.1	mg/kg
cypermethrin	0.01 - 0.1	mg/kg
cyproconazole	0.01 - 0.1	mg/kg
cyprodinil	0.01 - 0.1	mg/kg
cyromazine	0.01 - 0.1	mg/kg
deltamethrin	0.01 - 0.1	mg/kg
demeton	0.01 - 0.1	mg/kg
demeton-s-methyl	0.01 - 0.1	mg/kg
demeton-s-methyl sulfone	0.01 - 0.1	mg/kg
desmedipham	0.01 - 0.1	mg/kg
diazinon	0.01 - 0.1	mg/kg
dicamba	0.01 - 0.1	mg/kg
dichlofenthion	0.01 - 0.1	mg/kg
dichlorprop	0.01 - 0.1	mg/kg
dichlorvos	0.01 - 0.1	mg/kg
diclobutrazol	0.01 - 0.1	mg/kg
dicrotophos	0.01 - 0.1	mg/kg
diethofencarb	0.01 - 0.1	mg/kg
difenoconazole	0.01 - 0.1	mg/kg

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diflubenzuron	0.01 - 0.1	mg/kg
dimethoate	0.01 - 0.1	mg/kg
dimethomorph	0.01 - 0.1	mg/kg
dimoxystrobin	0.01 - 0.1	mg/kg
diniconazole	0.01 - 0.1	mg/kg
dinitramine	0.01 - 0.1	mg/kg
dinotefuran	0.01 - 0.1	mg/kg
dioxacarb	0.01 - 0.1	mg/kg
diphenamid	0.01 - 0.1	mg/kg
disulfoton	0.01 - 0.1	mg/kg
disulfoton sulfone	0.01 - 0.1	mg/kg
disulfoton sulfoxide	0.01 - 0.1	mg/kg
diuron	0.01 - 0.1	mg/kg
DMF	0.01 - 0.1	mg/kg
DMPF	0.01 - 0.1	mg/kg
DMST	0.01 - 0.1	mg/kg
doramectin	0.01 - 0.1	mg/kg
emamectin benzoate	0.01 - 0.1	mg/kg
EPN	0.01 - 0.1	mg/kg
epoxiconazole	0.01 - 0.1	mg/kg
epoxiconazole 2	0.01 - 0.1	mg/kg
eprinomectin	0.01 - 0.1	mg/kg
eprinomectin 2	0.01 - 0.1	mg/kg
EPTC	0.01 - 0.1	mg/kg
ethiofencarb	0.01 - 0.1	mg/kg
ethion	0.01 - 0.1	mg/kg
ethiprole	0.01 - 0.1	mg/kg
ethirimol	0.01 - 0.1	mg/kg
ethofumesate	0.01 - 0.1	mg/kg
ethoprop	0.01 - 0.1	mg/kg
ethoxyquin	0.01 - 0.1	mg/kg
etofenprox	0.01 - 0.1	mg/kg

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etoxazole	0.01 - 0.1	mg/kg
etrimphos	0.01 - 0.1	mg/kg
famoxadone	0.01 - 0.1	mg/kg
fenamidone	0.01 - 0.1	mg/kg
fenamiphos	0.01 - 0.1	mg/kg
fenamiphos sulfone	0.01 - 0.1	mg/kg
fenamiphos sulfoxide	0.01 - 0.1	mg/kg
fenarimol	0.01 - 0.1	mg/kg
fenazaquin	0.01 - 0.1	mg/kg
fenbuconazole	0.01 - 0.1	mg/kg
fenchlorphos oxon	0.01 - 0.1	mg/kg
fenhexamid	0.01 - 0.1	mg/kg
fenobucarb	0.01 - 0.1	mg/kg
fenoxycarb	0.01 - 0.1	mg/kg
fenpropimorph	0.01 - 0.1	mg/kg
fenpyroximate	0.01 - 0.1	mg/kg
fensulfothion	0.01 - 0.1	mg/kg
fensulfothion oxon	0.01 - 0.1	mg/kg
fensulfothion oxon sulfone	0.01 - 0.1	mg/kg
fensulfothion sulfone	0.01 - 0.1	mg/kg
fenthion	0.01 - 0.1	mg/kg
fenthion oxon	0.01 - 0.1	mg/kg
fenthion oxon sulfone	0.01 - 0.1	mg/kg
fenthion oxon sulfoxide	0.01 - 0.1	mg/kg
fenthion sulfone	0.01 - 0.1	mg/kg
fenthion sulfoxide	0.01 - 0.1	mg/kg
fenuron	0.01 - 0.1	mg/kg
fipronil	0.01 - 0.1	mg/kg
fipronil desulfinyl	0.01 - 0.1	mg/kg
fipronil sulfide	0.01 - 0.1	mg/kg
fipronil sulfone	0.01 - 0.1	mg/kg
flonicamid	0.01 - 0.1	mg/kg

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fluazifop-butyl	0.01 - 0.1	mg/kg
flubendiamide	0.01 - 0.1	mg/kg
flucythrinate	0.01 - 0.1	mg/kg
fludioxonil	0.01 - 0.1	mg/kg
flufenacet	0.01 - 0.1	mg/kg
flufenoxuron	0.01 - 0.1	mg/kg
fluometuron	0.01 - 0.1	mg/kg
fluoxastrobin	0.01 - 0.1	mg/kg
fluquinconazole	0.01 - 0.1	mg/kg
flusilazole	0.01 - 0.1	mg/kg
flutolanil	0.01 - 0.1	mg/kg
flutriafol	0.01 - 0.1	mg/kg
fluvalinate, tau-	0.01 - 0.1	mg/kg
fonofos	0.01 - 0.1	mg/kg
forchlorfenuron	0.01 - 0.1	mg/kg
formetanate HCl	0.01 - 0.1	mg/kg
formothion	0.01 - 0.1	mg/kg
fosthiazate	0.01 - 0.1	mg/kg
fuberidazole	0.01 - 0.1	mg/kg
furalaxyl	0.01 - 0.1	mg/kg
furathiocarb	0.01 - 0.1	mg/kg
halofenozide	0.01 - 0.1	mg/kg
haloxyfop	0.01 - 0.1	mg/kg
haloxyfop-2-ethoxyethyl	0.01 - 0.1	mg/kg
haloxyfop-methyl	0.01 - 0.1	mg/kg
hexaconazole	0.01 - 0.1	mg/kg
hexaflumuron	0.01 - 0.1	mg/kg
hexazinone	0.01 - 0.1	mg/kg
hexythiazox	0.01 - 0.1	mg/kg
hydramethylnon	0.01 - 0.1	mg/kg
imazilil	0.01 - 0.1	mg/kg
imidacloprid	0.01 - 0.1	mg/kg

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indoxacarb	0.01 - 0.1	mg/kg
ipconazole	0.01 - 0.1	mg/kg
iprodone	0.01 - 0.1	mg/kg
iprovalicarb	0.01 - 0.1	mg/kg
isofenfos	0.01 - 0.1	mg/kg
isofenphos-methyl	0.01 - 0.1	mg/kg
isoprocarb	0.01 - 0.1	mg/kg
isoprothiolane	0.01 - 0.1	mg/kg
isoproturon	0.01 - 0.1	mg/kg
isoxaflutole	0.01 - 0.1	mg/kg
ivermectin	0.01 - 0.1	mg/kg
kresoxim-methyl	0.01 - 0.1	mg/kg
lenacil	0.01 - 0.1	mg/kg
linuron	0.01 - 0.1	mg/kg
lufenuron	0.01 - 0.1	mg/kg
malaaxon	0.01 - 0.1	mg/kg
malathion	0.01 - 0.1	mg/kg
mandipropamid	0.01 - 0.1	mg/kg
MCPA	0.01 - 0.1	mg/kg
MCPB	0.01 - 0.1	mg/kg
MCPP	0.01 - 0.1	mg/kg
mecarbam	0.01 - 0.1	mg/kg
mefenacet	0.01 - 0.1	mg/kg
mepanipyrim	0.01 - 0.1	mg/kg
mepronil	0.01 - 0.1	mg/kg
metaflumizone	0.01 - 0.1	mg/kg
metalaxyl	0.01 - 0.1	mg/kg
metconazole	0.01 - 0.1	mg/kg
methabenzthiazuron	0.01 - 0.1	mg/kg
methacrifos	0.01 - 0.1	mg/kg
methamidophos	0.01 - 0.1	mg/kg
methidathion	0.01 - 0.1	mg/kg

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methiocarb	0.01 - 0.1	mg/kg
methiocarb sulfone	0.01 - 0.1	mg/kg
methiocarb sulfoxide	0.01 - 0.1	mg/kg
methomyl	0.01 - 0.1	mg/kg
methoprotrotryne	0.01 - 0.1	mg/kg
methoxyfenozide	0.01 - 0.1	mg/kg
metobromuron	0.01 - 0.1	mg/kg
metolachlor	0.01 - 0.1	mg/kg
metolcarb	0.01 - 0.1	mg/kg
metribuzin	0.01 - 0.1	mg/kg
mevinphos	0.01 - 0.1	mg/kg
mexacarbate	0.01 - 0.1	mg/kg
molinate	0.01 - 0.1	mg/kg
monocrotophos	0.01 - 0.1	mg/kg
monolinuron	0.01 - 0.1	mg/kg
moxidectin	0.01 - 0.1	mg/kg
myclobutanil	0.01 - 0.1	mg/kg
naled	0.01 - 0.1	mg/kg
napropamide	0.01 - 0.1	mg/kg
neburon	0.01 - 0.1	mg/kg
nitenpyram	0.01 - 0.1	mg/kg
nitralin	0.01 - 0.1	mg/kg
norflurazon	0.01 - 0.1	mg/kg
novaluron	0.01 - 0.1	mg/kg
nuarimol	0.01 - 0.1	mg/kg
omethoate	0.01 - 0.1	mg/kg
oryzalin	0.01 - 0.1	mg/kg
oxadiazinon	0.01 - 0.1	mg/kg
oxadixyl	0.01 - 0.1	mg/kg
oxamyl	0.01 - 0.1	mg/kg
oxydementon-methyl	0.01 - 0.1	mg/kg
oxyfluorfen	0.01 - 0.1	mg/kg

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paclobutrazole	0.01 - 0.1	mg/kg
paraoxon	0.01 - 0.1	mg/kg
paraoxon-methyl	0.01 - 0.1	mg/kg
parathion	0.01 - 0.1	mg/kg
penconazole	0.01 - 0.1	mg/kg
pencycuron	0.01 - 0.1	mg/kg
pendimethalin	0.01 - 0.1	mg/kg
permethrin, cis/trans	0.01 - 0.1	mg/kg
phenmedipham	0.01 - 0.1	mg/kg
phenthoate	0.01 - 0.1	mg/kg
phorate	0.01 - 0.1	mg/kg
phorate sulfone	0.01 - 0.1	mg/kg
phorate sulfoxide	0.01 - 0.1	mg/kg
phosalone	0.01 - 0.1	mg/kg
phosmet	0.01 - 0.1	mg/kg
phosphamidon	0.01 - 0.1	mg/kg
phoxim	0.01 - 0.1	mg/kg
picoxystrobin	0.01 - 0.1	mg/kg
piperonyl butoxide	0.01 - 0.1	mg/kg
pirimicarb	0.01 - 0.1	mg/kg
pirimicarb-desmethyl	0.01 - 0.1	mg/kg
pirimiphos-methyl	0.01 - 0.1	mg/kg
pirimiphos-methyl, N-desethyl	0.01 - 0.1	mg/kg
prochloraz	0.01 - 0.1	mg/kg
profenofos	0.01 - 0.1	mg/kg
promecarb	0.01 - 0.1	mg/kg
prometon	0.01 - 0.1	mg/kg
prometryn	0.01 - 0.1	mg/kg
propamocarb	0.01 - 0.1	mg/kg
propanil	0.01 - 0.1	mg/kg
propaquizafop	0.01 - 0.1	mg/kg
propargite	0.01 - 0.1	mg/kg

Method options listed above may be matrix dependent.

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propetamiphos	0.01 - 0.1	mg/kg
propiconazole	0.01 - 0.1	mg/kg
propoxur	0.01 - 0.1	mg/kg
propyzamide	0.01 - 0.1	mg/kg
prothioconazole	0.01 - 0.1	mg/kg
prothioconazole-desthio	0.01 - 0.1	mg/kg
prothiofos	0.01 - 0.1	mg/kg
pymetrozine	0.01 - 0.1	mg/kg
pyracarbolid	0.01 - 0.1	mg/kg
pyraclostrobin	0.01 - 0.1	mg/kg
pyrazon	0.01 - 0.1	mg/kg
pyrazophos	0.01 - 0.1	mg/kg
pyrethrins (cinerin 1)	0.01 - 0.1	mg/kg
pyrethrins (cinerin 2)	0.01 - 0.1	mg/kg
pyrethrins (jasmolin 1)	0.01 - 0.1	mg/kg
pyrethrins (jasmolin 2)	0.01 - 0.1	mg/kg
pyrethrins (pyrethrin 1)	0.01 - 0.1	mg/kg
pyrethrins (pyrethrin 2)	0.01 - 0.1	mg/kg
pyridaben	0.01 - 0.1	mg/kg
pyridaphenthion	0.01 - 0.1	mg/kg
pyrimethanil	0.01 - 0.1	mg/kg
pyriproxyfen	0.01 - 0.1	mg/kg
quinalphos	0.01 - 0.1	mg/kg
quinoxifen	0.01 - 0.1	mg/kg
resmethrin	0.01 - 0.1	mg/kg
rotenone	0.01 - 0.1	mg/kg
secbumeton	0.01 - 0.1	mg/kg
selamectin	0.01 - 0.1	mg/kg
sethoxydim	0.01 - 0.1	mg/kg
siduron	0.01 - 0.1	mg/kg
simazine	0.01 - 0.1	mg/kg
simetryn	0.01 - 0.1	mg/kg

Method options listed above may be matrix dependent.

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spinetoram J	0.01 - 0.1	mg/kg
spinetoram L	0.01 - 0.1	mg/kg
spinosad A	0.01 - 0.1	mg/kg
spinosad D	0.01 - 0.1	mg/kg
spirodiclofen	0.01 - 0.1	mg/kg
spiromesifen	0.01 - 0.1	mg/kg
spirotetramat	0.01 - 0.1	mg/kg
spirotetramat metabolite, cis enol	0.01 - 0.1	mg/kg
spirotetramat metabolite, enol glucoside	0.01 - 0.1	mg/kg
spirotetramat metabolite, monohydroxy	0.01 - 0.1	mg/kg
spiroxamine	0.01 - 0.1	mg/kg
sulfallate	0.01 - 0.1	mg/kg
sulfentrazone	0.01 - 0.1	mg/kg
sulprofos	0.01 - 0.1	mg/kg
tebuconazole	0.01 - 0.1	mg/kg
tebufenozide	0.01 - 0.1	mg/kg
tebufenpyrad	0.01 - 0.1	mg/kg
tebuthiuron	0.01 - 0.1	mg/kg
teflubenzuron	0.01 - 0.1	mg/kg
temephos	0.01 - 0.1	mg/kg
terbufos	0.01 - 0.1	mg/kg
terbufos sulfone	0.01 - 0.1	mg/kg
terbufos sulfoxide	0.01 - 0.1	mg/kg
terbumeton	0.01 - 0.1	mg/kg
terbuthylazine	0.01 - 0.1	mg/kg
terbutryn	0.01 - 0.1	mg/kg
tetrachlorvinphos	0.01 - 0.1	mg/kg
tetraconazole	0.01 - 0.1	mg/kg
thiabendazole	0.01 - 0.1	mg/kg
thiacloprid	0.01 - 0.1	mg/kg
thiamethoxam	0.01 - 0.1	mg/kg
thidiazuron	0.01 - 0.1	mg/kg

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thiobencarb	0.01 - 0.1	mg/kg
thiodicarb	0.01 - 0.1	mg/kg
thionazin	0.01 - 0.1	mg/kg
thiophanate-methyl	0.01 - 0.1	mg/kg
tolclofos-methyl	0.01 - 0.1	mg/kg
tolyfluanid	0.01 - 0.1	mg/kg
triadimefon	0.01 - 0.1	mg/kg
triadimenol	0.01 - 0.1	mg/kg
triazophos	0.01 - 0.1	mg/kg
tribuphos	0.01 - 0.1	mg/kg
trichlorfon	0.01 - 0.1	mg/kg
tricyclazole	0.01 - 0.1	mg/kg
tridemorph	0.01 - 0.1	mg/kg
trifloxystrobin	0.01 - 0.1	mg/kg
triflumazole	0.01 - 0.1	mg/kg
triflumuron	0.01 - 0.1	mg/kg
triticonazole	0.01 - 0.1	mg/kg
vamidathion	0.01 - 0.1	mg/kg
zoxamide	0.01 - 0.1	mg/kg

Method options listed above may be matrix dependent.

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Method Reference NQA-54-0005	Method Name Pesticide Residues by GC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Fruits, vegetables, juice conc., RTD juices, purees, teas

This method is not suitable to determine soy lecithin, white pepper, turmeric, fennel extract, oleoresin bay leaf and dried clove

QL may vary based on matrix effects

Analytes	QL	UOM	Variation
Aldrin	0.01 - 0.1	mg/kg	
Benfluralin	0.01 - 0.1	mg/kg	
BHC Alpha	0.01 - 0.1	mg/kg	
BHC Beta	0.01 - 0.1	mg/kg	
BHC Delta	0.01 - 0.1	mg/kg	
Bromopropylate	0.01 - 0.1	mg/kg	
Captafol	0.01 - 0.1	mg/kg	
Captan	0.01 - 0.1	mg/kg	
Chlordane cis	0.01 - 0.1	mg/kg	
Chlordane trans	0.01 - 0.1	mg/kg	
Chlorfenapyr	0.01 - 0.1	mg/kg	
Chlorfenson	0.01 - 0.1	mg/kg	
Chlorobenzilate	0.01 - 0.1	mg/kg	
Chlorothalonil	0.01 - 0.1	mg/kg	
Chlorpropham	0.01 - 0.1	mg/kg	
Chlozolate	0.01 - 0.1	mg/kg	
Cyfluthrin - total	0.01 - 0.1	mg/kg	
Cyfluthrin 1	0.01 - 0.1	mg/kg	
Cyfluthrin 2	0.01 - 0.1	mg/kg	
Cyfluthrin 3	0.01 - 0.1	mg/kg	
Cyfluthrin 4	0.01 - 0.1	mg/kg	
Dacthal	0.01 - 0.1	mg/kg	
Dichlobenil	0.01 - 0.1	mg/kg	

Method options listed above may be matrix dependent.

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Diclofluanid	0.01 - 0.1	mg/kg
Dicloran	0.01 - 0.1	mg/kg
Dicofol (met)	0.01 - 0.1	mg/kg
Dieldrin	0.01 - 0.1	mg/kg
Diphenylamine	0.01 - 0.1	mg/kg
Endosulfan I	0.01 - 0.1	mg/kg
Endosulfan II	0.01 - 0.1	mg/kg
Endosulfan Sulfate	0.01 - 0.1	mg/kg
Endrin	0.01 - 0.1	mg/kg
Ethalfuralin	0.01 - 0.1	mg/kg
Fenitrothion	0.01 - 0.1	mg/kg
Fenpropathrin	0.01 - 0.1	mg/kg
Fenson	0.01 - 0.1	mg/kg
Fenvalerate 1	0.01 - 0.1	mg/kg
Fenvalerate 2 / Esfenvalerate	0.01 - 0.1	mg/kg
Folpet	0.01 - 0.1	mg/kg
HCB	0.01 - 0.1	mg/kg
Heptachlor	0.01 - 0.1	mg/kg
Heptachlor Epoxide Isomer A	0.01 - 0.1	mg/kg
Heptachlor Epoxide Isomer B	0.01 - 0.1	mg/kg
L-Cyhalothrin	0.01 - 0.1	mg/kg
Lindane	0.01 - 0.1	mg/kg
Mirex	0.01 - 0.1	mg/kg
Nitrofen	0.01 - 0.1	mg/kg
o,p'-DDD	0.01 - 0.1	mg/kg
o,p'-DDE	0.01 - 0.1	mg/kg
o,p'-DDT	0.01 - 0.1	mg/kg
o-Phenylphenol	0.01 - 0.1	mg/kg
Oxychlorane	0.01 - 0.1	mg/kg
p,p'-DDD	0.01 - 0.1	mg/kg
p,p'-DDE	0.01 - 0.1	mg/kg
p,p'-DDT	0.01 - 0.1	mg/kg

Method options listed above may be matrix dependent.

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p,p'-Methoxychlor	0.01 - 0.1	mg/kg
Parathion-methyl	0.01 - 0.1	mg/kg
PCB 101	0.001	mg/kg
PCB 118	0.001	mg/kg
PCB 138	0.001	mg/kg
PCB 153	0.001	mg/kg
PCB 180	0.001	mg/kg
PCB 28	0.001	mg/kg
PCB 52	0.001	mg/kg
Pentachloroaniline	0.01 - 0.1	mg/kg
Perthane	0.01 - 0.1	mg/kg
Procymidone	0.01 - 0.1	mg/kg
Profluralin	0.01 - 0.1	mg/kg
Propham	0.01 - 0.1	mg/kg
Quintozene	0.01 - 0.1	mg/kg
Ronnel	0.01 - 0.1	mg/kg
Tecnazene	0.01 - 0.1	mg/kg
Tefluthrin	0.01 - 0.1	mg/kg
Tetradifon	0.01 - 0.1	mg/kg
Tetrasul	0.01 - 0.1	mg/kg
THPI	0.01 - 0.1	mg/kg
Trifluralin	0.01 - 0.1	mg/kg
Vinclozolin	0.01 - 0.1	mg/kg

Method Reference LI-00.908-01AUT	Method Name pH	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food, juices, tomato and pet food

Analytes	QL	UOM	Variation
pH at Ambient Temp.			

Method options listed above may be matrix dependent.

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Method Reference LI-00.908MTS	Method Name pH (for sterility testing only)	Sample Weight 50 g	Turnaround Time 8 days
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Matrices and Comments

Food, juices, tomato and pet food

Analytes	QL	UOM	Variation
pH at Ambient Temp.			

Method Reference EXT_PHOSPHOLIPI DS	Method Name Phospholipids*	Sample Weight 300	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Phospholipids		%	

Method options listed above may be matrix dependent.

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Method Reference LI-80.079	Method Name Plasticizers in Flex Material by GC-MS - Qualitative Screen	Sample Weight Minimum of 4 Original Containers	Turnaround Time Routine 30
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Matrices and Comments

Flexible and rigid plastics and multilayered laminate materials

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
1,2-Cyclohexane dicarboxylic acid diisononyl ester		N/A	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (TXIB)		N/A	
2-Ethylhexyl diphenyl phosphate		N/A	
Acetyltributyl Citrate		N/A	
Benzylbutyl Phthalate		N/A	
Dibutyl Phthalate		N/A	
Dibutyl Sebacate		N/A	
Dicyclohexyl Phthalate		N/A	
Diethyl Adipate		N/A	
Diethyl Sebacate		N/A	
Diethylhexyl Adipate		N/A	
Diethylhexyl Phthalate		N/A	
Diethylhexyl Sebacate		N/A	
Dihexyl Phthalate		N/A	
Diisobutyl Adipate		N/A	
Diisobutyl Phthalate		N/A	
Diisodecyl Phthalate		N/A	
Diisononyl Phthalate		N/A	
Diisooctyl Phthalate		N/A	
Dimethyl Phthalate		N/A	
Dimethyl Sebacate		N/A	
Di-n-octyl Adipate		N/A	
Di-n-octyl Phthalate		N/A	
Dinonyl Phthalate		N/A	

Method options listed above may be matrix dependent.

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Diethyl Terephthalate	N/A
Dipropyl Phthalate	N/A
Tributyl Citrate	N/A
Tricresyl Phosphate	N/A

Method options listed above may be matrix dependent.

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Method Reference LI-80.060	Method Name Plasticizers in Food by GC-MS	Sample Weight Minimum of 200g in Original Containers	Turnaround Time Routine 30
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Matrices and Comments

Tomato sauce in contact with metal closure gasket, fruits and vegetables products (e.g. pesto sauce, baby meals in contact with metal closure gasket and adult & infant cereals)

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	12	µg/kg (ppb)	
2-Ethylhexyldiphenyl phosphate	25	µg/kg (ppb)	
Acetyltributyl citrate	50	µg/kg (ppb)	
Benzyl Butyl phthalate	50	µg/kg (ppb)	
Di-(2-ethylhexyl) adipate	25	µg/kg (ppb)	
Di-(2-ethylhexyl) phthalate	12	µg/kg (ppb)	
Di-(2-ethylhexyl) sebacate	25	µg/kg (ppb)	
Di-(2-ethylhexyl) terephthalate	50	µg/kg (ppb)	
Dibutyl adipate	100	µg/kg (ppb)	
Dibutyl phthalate	12	µg/kg (ppb)	
Dibutyl sebacate	25	µg/kg (ppb)	
Dicyclohexyl phthalate	25	µg/kg (ppb)	
Diethyl adipate	50	µg/kg (ppb)	
Diethyl phthalate	12	µg/kg (ppb)	
Diethyl sebacate	50	µg/kg (ppb)	
Diisobutyl adipate	12	µg/kg (ppb)	
Diisobutyl phthalate	12	µg/kg (ppb)	
Diisodecyl phthalate	2000	µg/kg (ppb)	
Diisononyl phthalate	2000	µg/kg (ppb)	
Diisononylcyclohexane-1,2-dicarboxylate	1000	µg/kg (ppb)	
Diisooctyl phthalate	2000	µg/kg (ppb)	
Dimethyl phthalate	12	µg/kg (ppb)	
Dimethyl sebacate	100	µg/kg (ppb)	
Di-n-Hexyl phthalate	12	µg/kg (ppb)	

Method options listed above may be matrix dependent.

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Di-n-Octyl adipate	25	µg/kg (ppb)
Di-n-Octyl phthalate	25	µg/kg (ppb)
Dinonyl phthalate	2000	µg/kg (ppb)
Dipropyl phthalate	12	µg/kg (ppb)
N-Ethyl-p-toluenesulfonamide	150	µg/kg (ppb)
Tributyl citrate	25	µg/kg (ppb)
Tricresyl phosphate	150	µg/kg (ppb)

Method Reference NQA-54-0006	Method Name Polar Pesticides in Foods of Plant Origin by LC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Foods of plant origin such as fruits (including dried fruits), vegetables, cereals, coffee, tea, herbs, spices, mushrooms, wine, honey and processed products thereof. This method is not suitable to determine instant coffee and gum based

Default selection will include all polar pesticides; Daminozide may be analyzed separately if requested

Analytes	QL	UOM	Variation
Chlormequat	0.01	mg/kg	
Cyromazine	0.01	mg/kg	
Daminozide	0.01	mg/kg	DAMINOZIDE
Diquat	0.01	mg/kg	
Mepiquat	0.01	mg/kg	
Nereistoxin	0.01	mg/kg	
Paraquat	0.01	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_PAH_ECAL	Method Name Polycyclic Aromatic Hydrocarbons (PAH)*	Sample Weight 20 g	Turnaround Time Routine 10
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Matrices and Comments

Fats, cereals, milk products, smoked products

Analytes	QL	UOM	Variation
Benzo(a)anthracene	0.5	µg/kg	
Benzo(a)pyrene	0.5	µg/kg	
Benzo(b)fluoranthene	0.5	µg/kg	
Chrysen	0.5	µg/kg	
Sum of all positive identified PAH	1	µg/kg	

Method Reference EXT_POLYMXIN_E	Method Name Polymixin E (Colistin sulfate)*	Sample Weight 100 g	Turnaround Time Routine 25
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Colistin sulfate		µg/kg	

Method options listed above may be matrix dependent.

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Method Reference NQA-06-8300	Method Name Polyphenol Profile of Juice Concentrates and Purees by HPLC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice and honey (HMF_ONLY)

Analytes	QL	UOM	Variation
Arbutin	6	mg/100g	
Hesperidin	1	mg/100g	
HMF	9	mg/kg	HMF_ONLY
Naringin	1	mg/100g	
Neohesperidin	1	mg/100g	
Phloridzin	1	mg/100g	

Method Reference ISO-7932.2004	Method Name Presumptive Bacillus cereus enumeration	Sample Weight 25 g	Turnaround Time 3 days / Confirmed +2 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals and environmental samples

Analytes	QL	UOM	Variation
B. cereus Presumptive Result	< 10/g		

Method Reference LI-80.076	Method Name Primary Aromatic Amines by Photometry	Sample Weight Minimum of 10 dm ² of Original Material	Turnaround Time Routine 30
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Matrices and Comments

Flexible laminates

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Aniline Equivalent	0.5	µg/dm ²	

Method options listed above may be matrix dependent.

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Method Reference EXT_QAC_ECAL	Method Name Quaternary Ammonium Compounds (QAC)*	Sample Weight 100 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
BAC 10 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
BAC 12 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
BAC 14 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
BAC 16 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
BAC 18 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
BAC 8 (Benzydimethyloctylammonium chloride)	0.01	mg/kg	
DDAC (Didecyldimethylammonium chloride)	0.01	mg/kg	

Method Reference LI-00.141	Method Name Radioactivity by Gamma Spectrometry	Sample Weight 300 g (mL)	Turnaround Time Routine 7
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Matrices and Comments

Food raw materials and finished products

Provide the Julian date or date of production in month/day/year format as this is required to calculate results.

Quantitation Limits are calculated by the analytical software and take into account factors such as the sample weight used, age of product and half-life of the radionuclide.

Analytes	QL	UOM	Variation
Cesium - 134	CALC	Bq/kg	
Cesium - 137	CALC	Bq/kg	
Iodine - 131	CALC	Bq/kg	
Potassium - 40	CALC	Bq/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_REDUCING_SUGARS	Method Name Reducing Sugars*	Sample Weight 40 g	Turnaround Time Routine 12
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Matrices and Comments

Vegetables, sugar products, beverages and food

Analytes	QL	UOM	Variation
Reducing Sugars	0.005	%	

Method Reference EXT_RESIDUAL_ALCOHOL	Method Name Residual Ethanol and Methanol*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Analytes	QL	UOM	Variation
Ethanol	10	ppm	
Methanol	10	ppm	

Method options listed above may be matrix dependent.

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Method Reference LI-80.010	Method Name Residual Solvents in Packaging	Sample Weight 1 rolled sample approx.30 layers thick	Turnaround Time Routine 30
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Matrices and Comments

Printed packaging films

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Combined Ketones and Acetates	1	mg/m2	
Toluene	1.0	mg/m2	
Total Residual Solvents	1.0	mg/m2	
1-ethoxy-2-propanol	1.4	mg/m2	
1-methoxy-2-propanol	1.4	mg/m2	
2-Butoxyethanol	1.4	mg/m2	
2-methoxy ethanol	1.4	mg/m2	
Ethoxy-2-ethyl acetate	1.4	mg/m2	
Methoxy propyl acetate	1.4	mg/m2	
Methyl cyclohexane	1.4	mg/m2	
2-propanol	1.4	mg/m2	
Acetone	1.4	mg/m2	
Cyclohexanone	1.4	mg/m2	
Isobutanol	1.4	mg/m2	
Isopropyl acetate	1.4	mg/m2	
Methyl isobutyl ketone	1.4	mg/m2	
N-propanol	1.4	mg/m2	
N-propyl acetate	1.4	mg/m2	
Tetrahydrofuran	1.4	mg/m2	
1-butanol	1.4	mg/m2	
2-butanol	1.4	mg/m2	
2-methoxy ethyl acetate	1.4	mg/m2	
Butyl acetate	1.4	mg/m2	
Ethanol	1.4	mg/m2	

Method options listed above may be matrix dependent.

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Ethylene glycol ethyl ether	1.4	mg/m2
Isobutyl acetate	1.4	mg/m2
Methanol	1.4	mg/m2
Methyl ethyl ketone	1.4	mg/m2
Toluene	1.4	mg/m2
Cyclohexane	1.4	mg/m2
Ethyl acetate	1.4	mg/m2
Ketones and acetates (TOTAL)	1.4	mg/m2
Methyl acetate	1.4	mg/m2

Method Reference EXT_RES_MALTO E	Method Name Resistant Maltodextrins*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
High Molecular Weight Dietary Fiber (HMWDF)		%	
Low Molecular Weight Soluble Dietary Fiber (LMWSDF)		%	
Total Dietary Fiber (HMWDF + LMWSDF)		%	

Method Reference LI-00.713	Method Name Salmonella Isolation For Plates, Slants, or Broths	Sample Weight Plate, Slant, or Broth	Turnaround Time 6 days up to 10 days with serology* (negative results may be reported sooner)
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Matrices and Comments

Plates, slants, or broths with presumptive growth

*Timelines may vary due to additional confirmation being needed for targeted organisms.

Analytes	QL	UOM	Variation
Salmonella Final			plates and slants

Method options listed above may be matrix dependent.

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Method Reference NQA-00-2510PREP	Method Name Sample Defatting for Carbohydrate Analysis	Sample Weight 50 g	Turnaround Time
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Matrices and Comments

Required for high-fat products requesting sugars analysis

Analytes	QL	UOM	Variation
N/A			

Method Reference External_SEM_EDS	Method Name Scanning Electron Microscopy - Energy Dispersive Spectroscopy (SEM-EDS)	Sample Weight Depends on availability	Turnaround Time Routine 21 Rush 10
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Matrices and Comments

SEM-EDS is an X-ray based analytical tool used to identify glass and other materials.

Analytes	QL	UOM	Variation
SEM-EDS			

Method Reference EXT_SESAME	Method Name Sesame (as allergen)*	Sample Weight Original (minimum 100 g)	Turnaround Time Routine 7
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Matrices and Comments

Food and swabs

Analytes	QL	UOM	Variation
Sesame	6.25	ppm	

Method options listed above may be matrix dependent.

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Method Reference EXT_SNIF_NMR	Method Name SNIF-NMR*	Sample Weight 800 g	Turnaround Time Routine 30
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Matrices and Comments

Juice

Includes determination of adulteration.

Analytes	QL	UOM	Variation
(D/H)I (Ethanol, norm.vs.SMOW) Guidelines 97 - 101 (AIJN)		ppm	
(D/H)I ethanol		ppm	
(D/H)II (Ethanol, norm.vs.SMOW)		ppm	
(D/H)II ethanol		ppm	
Delta D13 (Ethanol /V.PDB) Guidelines -28 -- 25 (AIJN)		%	
Interpretation			
Presence of inulin peaks		Qualitative	
Presence of invert sugar peaks		Qualitative	
Presence of isomaltose peaks		Qualitative	
Presence of maltose peaks		Qualitative	

Method Reference NQA-00.8324	Method Name Soy Traces by ELISA (Allergen)	Sample Weight original 50g	Turnaround Time Routine 7 Rush 3
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Matrices and Comments

Infant formula, tannin-containing products (tea, coffee), nutritional drinks, finished food products, rinse water, environmental swabs

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
Soy Protein	2.5	mg/kg	Soy
Soy Protein	100	ng/mL	Soy_Swabs

Method options listed above may be matrix dependent.

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Method Reference EXT_SPECIFIC_GRA VITY	Method Name Specific Gravity*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Liquids

Analytes	QL	UOM	Variation
Density		g/mL	

Method Reference NQA-00-3006	Method Name β-Carotene by UV Abs	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Vitamin premix

Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Total Beta Carotene	10	µg/g	

Method Reference LI-08.084_M	Method Name β-Lactoglobulin (BLG) by ELISA	Sample Weight Original (50 g)	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Products containing milk, whey and casein hydrolysates, and for detection of milk and whey protein contaminations in infant cereals and similar products

LI-00.556 Total Nitrogen/Protein by Kjeldahl testing required

Analytes	QL	UOM	Variation
β-Lactoglobulin (BLG)	CALC	mg/gPr	
β-Lactoglobulin (BLG)	10	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference AOAC 2007.06	Method Name Staph Enterotoxin by Vidas SET 2	Sample Weight 50 g	Turnaround Time 7 days
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Matrices and Comments

Food products and in culture media

Analytes	QL	UOM	Variation
Staph Enterotoxin			

Method Reference EXT_STARCH	Method Name Starch*	Sample Weight 10 g	Turnaround Time Routine 12
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Matrices and Comments

Food, pet food and feed

Analytes	QL	UOM	Variation
Starch	0.05	%	

Method Reference EXT_STREPTOMYCI N	Method Name Streptomycin*	Sample Weight 300g total needed for all vet drugs offered at NQAC Cergy	Turnaround Time Routine 30
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Matrices and Comments

Meat, fish except dehydrated, honey

Initial Analysis is a qualitative screening of the compound class - in the event of a positive or doubtful result the quantitative screen will be performed, incurring additional charge.

Analytes	QL	UOM	Variation
Dihydrostreptomycin	10	µg/kg	
Streptomycin	10	µg/kg	
Streptomycin and Dihydrostreptomycin	10	µg/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_SUCRALOSE	Method Name Sucralose*	Sample Weight 50 g	Turnaround Time Routine 12
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Matrices and Comments

Finished products

Analytes	QL	UOM	Variation
Sucralose	125	ppm	

Method Reference EXT_SUDAN_ECAL	Method Name Sudan Red Dyes*	Sample Weight 10 g	Turnaround Time Routine 10
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Butter yellow (4-dimethylaminoazobenzene)(methyl yellow)	0.01	ppm	
o-Aminoazotoluene (Fast Garnet GBC base)	0.01	ppm	
Orange OT (oil orange SS)	0.02	ppm	
Para Red	0.01	ppm	
Sudan I	0.02	ppm	
Sudan II	0.05	ppm	
Sudan III	0.04	ppm	
Sudan IV (Sudan Red B sum expressed as Sudan IV)	0.01	ppm	
Sudan Orange G	0.04	ppm	
Sudan Red 7B	0.02	ppm	
Sudan Red G	0.02	ppm	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-2512	Method Name Sugar Alcohols by HPAE Chromatography	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Glycerol	0.1	g/100g	
Lactitol	0.1	g/100g	
Maltitol	0.1	g/100g	
Mannitol	0.1	g/100g	
Sorbitol	0.1	g/100g	
Xylitol	0.1	g/100g	

Method Reference NQA-00-2510_SUG	Method Name Sugars-Carbohydrates by HPAE Chromatography	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food products, non-juice

Analytes	QL	UOM	Variation
Fructose	0.05	g/100g	
Glucose	0.05	g/100g	
Lactose / Residual Lactose	0.05	g/100g	
Maltose	0.05	g/100g	
Sucrose	0.05	g/100g	
Total Sugars	0.05	g/100g	

Method options listed above may be matrix dependent.

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Method Reference ISO-15213.2003	Method Name Sulfite Reducing Anaerobic Bacteria	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Products intended for human consumption and for the feeding of animals.

Indicate which of the four analytes are required.

Analytes	QL	UOM	Variation
Sulfite Reducing Anaerobic Mesophilic Spore Result	< 10/g / < 1/mL		Anaerobic Mesophilic Spores - ANMS_ML or (CFU/g) - ANMS_G
Sulfite Reducing Anaerobic Mesophilic Vegetative Result	< 10/g / < 1/mL		Anaerobic Mesophilic Vegetative Cells - ANMC_ML or (CFU/g) - ANMC_G
Sulfite Reducing Anaerobic Thermophilic Spore Result	< 10/g / < 1/mL		Anaerobic Thermophilic Spores - ANTS_ML or (CFU/g) - ANTS_G
Sulfite Reducing Anaerobic Thermophilic Vegetative Result	< 10/g / < 1/mL		Anaerobic Thermophilic Vegetative Cells - ANTC_ML or (CFU/g) - ANTC_G

Method Reference EXT_SULFITES	Method Name Sulfites *	Sample Weight 300	Turnaround Time Routine 14
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Sulfur Dioxide and Sulfites, as SO2	10	mg/kg	

Method options listed above may be matrix dependent.

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Method Reference AOAC 990.28	Method Name Sulfur Dioxide (Sulfites) In Foods	Sample Weight 150 g	Turnaround Time Routine 7
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Matrices and Comments

Food

False positives can be obtained from garlic powder, soy protein, onions, leeks, kale, brussel sprouts, horseradish, cabbage, and ginger. All food matrices will be analyzed, but if false positives are suspected, the sample can be sent to an external lab

Analytes	QL	UOM	Variation
Sulfur Dioxide	10	mg/kg	

Method Reference NQA-00-4411	Method Name TAB - Thermophilic Acidophilic Bacillus	Sample Weight 25 g	Turnaround Time 4 days
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Matrices and Comments

Fruit juice, purees and concentrates

Analytes	QL	UOM	Variation
Thermophilic acidophilic bacillus (TAB) - Spores	< 1/g / < 1/10mL		TAB Spores (CFU/10mL) - DEFAULT - TABS_10ML or TAB Spores (CFU/g) - TABS_G
Thermophilic acidophilic bacillus (TAB) - Vegetative	< 1/g / < 1/10mL		TAB Vegetative Cells (CFU/10mL) - DEFAULT - TABC_10ML or TAB Vegetative Cells (CFU/g) - TABC_G

Method options listed above may be matrix dependent.

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Method Reference LI-80.018	Method Name Taint Transfer from Packaging to Food (Robinson)	Sample Weight 4dm² of packaging material	Turnaround Time Routine 14
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Matrices and Comments

Packaging material (flexible)

Rigid packaging materials can be tested using Olfactory LI-80.017. Robinson is for flexible packaging materials (i.e. paper, board, laminate).

Any material with a median score equal or greater than 2.5 is considered to be of doubtful quality and should be submitted for further analysis.

All packaging material should be received wrapped in two layers of aluminum foil to ensure prevention of both loss of analyte and external contamination

Analytes	QL	UOM	Variation
Robinson Test (Score)		N/A	

Method Reference LI-00.397	Method Name TC1507 GM-Maize quantification by RTi-PCR	Sample Weight 50g	Turnaround Time Routine 14
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Matrices and Comments

Matrices requirements same as LI-00.386 GMO Identification

Result:
% of GM-maize vs total maize

**Note: Please contact Customer Service for quicker results during crisis or emergency situations

Analytes	QL	UOM	Variation
GM maize (corn) TC1507	0.05	%, (m/m)	

Method options listed above may be matrix dependent.

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Method Reference LI-00.611	Method Name Tetracyclines in Food by LC-MS/MS	Sample Weight 20 g	Turnaround Time Routine 7
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Matrices and Comments

Milk-based products including infant formula powders, meat based products, baby foods and finished products

Analytes	QL	UOM	Variation
Chlortetracycline + 4-epimer	50	ppb	
Demeclocycline + 4-epimer	50	ppb	
Doxycycline + 6-epimer	50	ppb	
Oxytetracycline + 4-epimer	50	ppb	
Tetracycline + 4-epimer	50	ppb	

Method Reference NQA-00-4006	Method Name Thermophillic Plate Count	Sample Weight 25 g	Turnaround Time 3 days
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Matrices and Comments

Dairy products, and agricultural products

Analytes	QL	UOM	Variation
Thermophilic Result	< 10/g / < 1/mL		

Method options listed above may be matrix dependent.

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Method Reference LI-00.908TA	Method Name Titratable Acidity	Sample Weight 30 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food, juices, tomato and pet food

Reference Acids available:

- Acetic
- Anhydrous Citric (default)
 - Lactic
 - Malic
- Phosphoric
- Tartaric

Analytes	QL	UOM	Variation
Titratable Acidity at pH 8.1		g/100g	
Titratable Acidity at pH 8.2		g/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-00.594	Method Name Total Amino Acids by ACCQ-TAG & UHPLC-UV with Taurine	Sample Weight 25 g	Turnaround Time Routine 7
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Matrices and Comments

Soy- and milk-based infant and adult formula and similar materials, infant cereals, dry and wet pet foods

Please indicate whether all amino acids are needed or Taurine only.

QL's may increase depending on sample matrix

Analytes	QL	UOM	Variation
Alanine	0.01	g/100g	
Arginine	0.01	g/100g	
Aspartic Acid	0.01	g/100g	
Cystine	0.02	g/100g	
Glutamic Acid	0.01	g/100g	
Glycine	0.01	g/100g	
Histidine	0.01	g/100g	
Isoleucine	0.01	g/100g	
Leucine	0.01	g/100g	
Lysine	0.01	g/100g	
Methionine	0.01	g/100g	
Phenylalanine	0.01	g/100g	
Proline	0.01	g/100g	
Serine	0.01	g/100g	
Taurine	4	mg/100g	
Threonine	0.01	g/100g	
Tyrosine	0.01	g/100g	
Valine	0.01	g/100g	

Method options listed above may be matrix dependent.

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Method Reference AOAC 2009.01	Method Name Total Dietary Fiber in Foods (CODEX Definition)	Sample Weight 100 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Applicable to plant materials, foods, food ingredients and raw materials consistent with the CODEX Fiber Definition including naturally occurring, isolated, modified, and synthetic polymers meeting the fiber definition. Plant materials include grains, cereals, fruits and vegetables

Analytes	QL	UOM	Variation
Soluble Fiber – HPLC Portion	0.1	g/100g	
Total Dietary Fiber	0.5	g/100g	
Total Fiber – Gravimetric Portion	0.5	g/100g	

Method Reference OM-AOAC-991.43_TDF	Method Name Total Dietary Fiber Modified AOAC 991.43	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food

This method is not suitable to determine non-digestible oligosaccharides (NDOs) such as fructooligosaccharides (FOS), inulin, galactooligosaccharides (GOS), resistant maltodextrins, polydextrose.

Analytes	QL	UOM	Variation
Total Dietary Fiber	0.5	%	

Method Reference LI-00.582	Method Name Total Fructans by Modified AOAC 999.03	Sample Weight 30 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Infant formula, milk powder, infant cereals and fructan ingredients
Please include the Fructan ingredient list so the correct factor can be applied as it could impact the results up to 25%.
If this list is not provided, the default factor of 1.0 will be applied.

Analytes	QL	UOM	Variation
Fructans	0.5	g/100g	

Method options listed above may be matrix dependent.

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Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.849	Total Iodine Analysis by ICP-MS	50 g	Routine 7

Matrices and Comments

Vitamin and pet food premixes, infant formulas, Ready-To-Feed and milk-based products, clinical nutrition products, meal-replacement products, culinary products, stocks, flavouring, salts, dry- and wet- pet foods

Analytes	QL	UOM	Variation
Iodine	3	µg/100g	

Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.557	Total Nitrogen and Protein by Combustion	50 g	Routine 7 Rush 5

Matrices and Comments

Powders or other foods, > 1% protein

Protein calculated using factor of 6.25.

Analytes	QL	UOM	Variation
Nitrogen	0.16	%	
Protein (F = 6.25)	1	%	

Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.556	Total Nitrogen/Protein - Kjeldahl Method	25 g	Routine 7 Rush 5

Matrices and Comments

Foods < 1% protein, liquid, raw meat, oil, high fat, high salt, fruit, vegetable, high vegetable content or caffeinated

Protein calculated using factor of 6.25.

Analytes	QL	UOM	Variation
Nitrogen	0.05	%	
Protein (F = 6.25)	0.3125	%	

Method options listed above may be matrix dependent.

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Method Reference	Method Name	Sample Weight	Turnaround Time
LI-00.590	Total Oligosaccharides by HPLC (GOS)	250 g for whey permeate (liquid) 50 g for GOS Ingredient 100 g for WOS powder 100 g for infant formula	Routine 7

Matrices and Comments

Infant formula, BMOS, whey permeates, GOS

Analytes	QL	UOM	Variation
Galactooligosaccharides (GOS)	0.1	g/100g	

Method Reference	Method Name	Sample Weight	Turnaround Time
LI-33.123	Total Polyphenols in Cocoa and Chocolate Products	50 g	Routine 14 Rush 7

Matrices and Comments

Cocoa and chocolate products

Analytes	QL	UOM	Variation
Total Polyphenols as ECE	CALC	g/100g	

Method Reference	Method Name	Sample Weight	Turnaround Time
NQA-52-0001	Total Polyphenols in Tea and Coffee	50 g	Routine 14 Rush 7

Matrices and Comments

Tea, coffee

Analytes	QL	UOM	Variation
Flavonoids	0.005	g/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-00.589	Method Name Total Tryptophan by HPLC	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Raw materials and food products

Analytes	QL	UOM	Variation
Tryptophan	0.01	g/100g	

Method Reference DOP-756-1001	Method Name Total Vitamin A Calculation	Sample Weight 0	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

The sum of Vitamin A activity requires that both LI-00.608 and LI-00.683 are performed. Total Vitamin A only includes contribution from trans-Beta Carotene.

Analytes	QL	UOM	Variation
Total Vitamin A as IU	20	IUA/100g	
Total Vitamin A as RE	6	µgRE/100g	

Method Reference OM-AOAC-991.43_SDF_IDF	Method Name Total, Soluble, and Insoluble Dietary Fiber Modified AOAC 991.43	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Food

This method is not suitable to determine non-digestible oligosaccharides (NDOs) such as fructooligosaccharides (FOS), inulin, galactooligosaccharides (GOS), resistant maltodextrins, polydextrose.

Analytes	QL	UOM	Variation
Insoluble Fiber	0.5	%	
Soluble Fiber	0.5	%	
Total Dietary Fiber	0.5	%	

Method options listed above may be matrix dependent.

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Method Reference LI-00.848	Method Name Trace Elements and Heavy Metals by ICP-MS	Sample Weight 25 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Liquid and solid food products and raw materials

Indicate each element and heavy metal required

The QL's are dependent on the matrix, values listed are based on powdered infant formula

Analytes	QL	UOM	Variation
Aluminum	0.4	mg/kg	
Arsenic	8	µg/kg	
Cadmium	8	µg/kg	
Chromium	4	µg/100g	
Lead	8	µg/kg	
Mercury	4	µg/kg	
Molybdenum	4	µg/100g	
Nickel	200	µg/kg	
Selenium	4	µg/100g	
Tin	200	µg/kg	

Method Reference EXT_TNPP	Method Name Tris(nonylphenyl) phosphite (TNPP)*	Sample Weight Original Container	Turnaround Time Routine 30
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Matrices and Comments

Packaging

Packaging Sampling Requirements: All samples for packaging analysis should be tightly wrapped with 5 layers of aluminium foil and labeled clearly on the exterior. No tapes or markers should be used on the packaging materials.

Analytes	QL	UOM	Variation
4-tris(nonylphenyl) phosphite	0.2	µg/g	

Method options listed above may be matrix dependent.

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Method Reference EXT_ATROPINE_SC OPOLAMINE	Method Name Tropane Alkaloids (sum of (-)-Hyoscyamine and (+)- Hyoscyamine as Atropine)*	Sample Weight 100 g	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
Atropine	1	µg/kg	
Scopolamine	1	µg/kg	

Method Reference EXT_TROPANE_ALK ALOID	Method Name Tropane Alkaloids (Differentiation between (-)-Hyoscyamine and (+)- Hyoscyamine)*	Sample Weight 100 g	Turnaround Time Routine 30
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Matrices and Comments

Food

Analytes	QL	UOM	Variation
(-)-Hyoscyamine	1	µg/kg	
(+)-Hyoscyamine	1	µg/kg	
Scopolamine	1	µg/kg	

Method Reference NQA-06-6003	Method Name Turbidity of Juice Concentrates	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Juice

Analytes	QL	UOM	Variation
Turbidity		NTU	

Method options listed above may be matrix dependent.

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Method Reference EXT_UJS_CERGY	Method Name Unsaponifiable in Jute Sacks*	Sample Weight See **	Turnaround Time Routine 30
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Matrices and Comments

Jute sacks

**All samples for packaging analyses should be tightly wrapped with 5 layers of aluminum foil (thickness : 30 to 40 µm) to avoid any loss of volatile and protect against any undesired smell which cause inaccuracy in analysis.

Analytes	QL	UOM	Variation
Total unsaponifiable		mg/kg	

Method options listed above may be matrix dependent.

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Method Reference EXT_UV_PHOTO	Method Name UV Photoinitiators*	Sample Weight See **	Turnaround Time Routine 30
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Matrices and Comments

Packaging material

**All samples for packaging analyses should be tightly wrapped with 5 layers of aluminum foil (thickness: 30 to 40 µm) to avoid any loss of volatile and protect against any undesired smell which cause inaccuracy in analysis.

Analytes	QL	UOM	Variation
1 Chlor 4 propoxythioxanthon (CPTX)	7	µg/dm ²	
1 Hydroxycyclohexyl 1 Phenylketon (HCPK)	7	µg/dm ²	
1,6 Hexanediol diacrylate (HDDA)	33	µg/dm ²	
2 Butoxyethyl 4 diethylam benz (BEDEAB)	7	µg/dm ²	
2 Chlorothioxanthon (CTX)	7	µg/dm ²	
2 Dimethylamino ethylbenzoate (DMB)	33	µg/dm ²	
2 Ethylantraquinone (EAQ)	7	µg/dm ²	
2 Ethylhexyl 4 dimethylam benz (EHDAB)	7	µg/dm ²	
2 Hydroxy 2 methylpropiofenone (HMPP)	33	µg/dm ²	
2 Isopropyl 9H thioxanthen 9 one (2 ITX)	7	µg/dm ²	
2 Meth 4 meth 2 morp prop (IRGACURE 907)	7	µg/dm ²	
2 Methylbenzophenone (2 MBP)	7	µg/dm ²	
2 Phenoxyethyl acrylate (PHEA)	33	µg/dm ²	
2,2 Diethoxyacetophenone (DEAP)	7	µg/dm ²	
2,2 Dimethoxy 2 Phenylacetophenon (DMPA)	7	µg/dm ²	
2,4 Diethyl 9H thioxanthen 9 one (DETX)	7	µg/dm ²	
2,4,6 Trim benz phen phosp ethyl (TPO L)	33	µg/dm ²	
2,4,6 trimethylbenzophenone (MPK)	7	µg/dm ²	
4 (p tolythio) benzophenone (4 BMS)	7	µg/dm ²	
4 Isopropyl 9H thioxanthen 9 one (4 ITX)	7	µg/dm ²	
4 methyl benzophenone (4 MBP)	7	µg/dm ²	
4 Phenyl benzophenone (PBZ)	7	µg/dm ²	
4,4 Bis diethylamin benzophenone (DEAB)	13	µg/dm ²	
4,4 Bis dimethylamin benzophenone (MK)	13	µg/dm ²	

Method options listed above may be matrix dependent.

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Benz acid 4 dimethylam ethyl ester (EDB)	7	µg/dm ²
Benzophenone (BP)	7	µg/dm ²
Ethylbenzoylformate (EBF)	7	µg/dm ²
Methyl 2 benzoyl benzoate (MBB)	7	µg/dm ²
Methylbenzoylformate (MBF)	7	µg/dm ²

Method Reference NQA-01-7014	Method Name Vanillins In Vanilla Extract	Sample Weight 50 g	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Vanilla extracts

Analytes	QL	UOM	Variation
4-Hydroxybenzaldehyde	10	mg/kg	
4-Hydroxybenzoic Acid	10	mg/kg	
Benzaldehyde	20	mg/kg	
Ethyl Vanillin	20	mg/kg	
Guaiacol	50	mg/kg	
Vanillic Acid	30	mg/kg	
Vanillin	20	mg/kg	

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Method Reference LI-00.172	Method Name Veterinary Drugs in Food by LC-MS/MS	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Milk-based products (raw milk, milk fractions, infant formula*, growing-up formula*, adult formula*, infant cereals, baby-foods);
meat- and fish-based products (powdered, fresh, cooked, infant cereals, baby foods)

Analytes	QL	UOM	Variation
5-hydroxythiabendazole	10	µg/kg (ppb)	
Abamectin B1a	5	µg/kg (ppb)	
Albendazole	10	µg/kg (ppb)	
Albendazole-2-amino sulfone	10	µg/kg (ppb)	
Albendazole-sulfone	10	µg/kg (ppb)	
Albendazole-sulfoxide	10	µg/kg (ppb)	
Amprolium	15	µg/kg (ppb)	
Baquiloprim	15	µg/kg (ppb)	
Carazolol	5	µg/kg (ppb)	
Carprofen	15	µg/kg (ppb)	
Chloramphenicol	0.3	µg/kg (ppb)	
Chlorpromazine	15	µg/kg (ppb)	
Cinoxacin	10	µg/kg (ppb)	
Ciprofloxacin	10	µg/kg (ppb)	
Clindamycin	15	µg/kg (ppb)	
Clopidol	15	µg/kg (ppb)	
Closantel	15	µg/kg (ppb)	
Danofloxacin	10	µg/kg (ppb)	
Dapsone	5	µg/kg (ppb)	
Diclazuril	15	µg/kg (ppb)	
Diclofenac	5	µg/kg (ppb)	
Difloxacin	10	µg/kg (ppb)	
Doramectin	5	µg/kg (ppb)	
Emamectin B1a	5	µg/kg (ppb)	

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Enoxacin	10	µg/kg (ppb)
Enrofloxacin	10	µg/kg (ppb)
Eprinomectin B1a	5	µg/kg (ppb)
Erythromycin A	15	µg/kg (ppb)
Febantel	10	µg/kg (ppb)
Fenbendazole	10	µg/kg (ppb)
Fleroxacin	10	µg/kg (ppb)
Florfenicol	10	µg/kg (ppb)
Flubendazole	10	µg/kg (ppb)
Flumequine	10	µg/kg (ppb)
Flunixin	15	µg/kg (ppb)
Haloxon	15	µg/kg (ppb)
Imidocarb	15	µg/kg (ppb)
Ivermectin B1a	5	µg/kg (ppb)
Josamycin	15	µg/kg (ppb)
Lasalocid A	5	µg/kg (ppb)
Levamisole	10	µg/kg (ppb)
Lincomycin	15	µg/kg (ppb)
Lomefloxacin	10	µg/kg (ppb)
Maduramycin	5	µg/kg (ppb)
Marbofloxacin	10	µg/kg (ppb)
Mebendazole	10	µg/kg (ppb)
Meloxicam	15	µg/kg (ppb)
Monensin	2	µg/kg (ppb)
Moxidectin	5	µg/kg (ppb)
Nalidixic acid	10	µg/kg (ppb)
Narasin	5	µg/kg (ppb)
Netobimin	10	µg/kg (ppb)
Nicarbazin	15	µg/kg (ppb)
Niclosamide	15	µg/kg (ppb)
Nitroxinil	15	µg/kg (ppb)
Norfloxacin	10	µg/kg (ppb)

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Novobiocin sodium	15	µg/kg (ppb)
Ofloxacin	10	µg/kg (ppb)
Oleandomycin	15	µg/kg (ppb)
Oxfendazole	10	µg/kg (ppb)
Oxibendazole	10	µg/kg (ppb)
Oxolinic acid	10	µg/kg (ppb)
Oxyclozanide	10	µg/kg (ppb)
Pefloxacin	10	µg/kg (ppb)
Phenylbutazone	15	µg/kg (ppb)
Pipemidic acid	10	µg/kg (ppb)
Piromidic acid	10	µg/kg (ppb)
Praziquantel	15	µg/kg (ppb)
Pyrantel	15	µg/kg (ppb)
Rafoxanide	10	µg/kg (ppb)
Rifampicin	15	µg/kg (ppb)
Rifaximin	15	µg/kg (ppb)
Robenidine	15	µg/kg (ppb)
Roxithromycin	15	µg/kg (ppb)
Salinomycin	5	µg/kg (ppb)
Sarafloxacin	10	µg/kg (ppb)
Spiramycin	15	µg/kg (ppb)
Sulfabenzamide	10	µg/kg (ppb)
Sulfachloropyridazine	10	µg/kg (ppb)
Sulfadiazine	10	µg/kg (ppb)
Sulfadimethoxine	10	µg/kg (ppb)
Sulfadoxine	10	µg/kg (ppb)
Sulfaguandine	10	µg/kg (ppb)
Sulfamerazine	10	µg/kg (ppb)
Sulfameter	10	µg/kg (ppb)
Sulfamethazine	10	µg/kg (ppb)
Sulfamethazine-N4-acetyl	10	µg/kg (ppb)
Sulfamethizole	10	µg/kg (ppb)

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Sulfamethoxazole	10	µg/kg (ppb)
Sulfamethoxyipyridazine	10	µg/kg (ppb)
Sulfamonomethoxine	10	µg/kg (ppb)
Sulfamoxole	10	µg/kg (ppb)
Sulfanilamide	10	µg/kg (ppb)
Sulfapyridine	10	µg/kg (ppb)
Sulfaquinoxaline	10	µg/kg (ppb)
Sulfathiazole	10	µg/kg (ppb)
Sulfisomidine	10	µg/kg (ppb)
Thiabendazole	10	µg/kg (ppb)
Thiamphenicol	10	µg/kg (ppb)
Tilmicosin	15	µg/kg (ppb)
Triclabendazole	10	µg/kg (ppb)
Trimethoprim	15	µg/kg (ppb)
Tylosin A	15	µg/kg (ppb)
Virginiamycin M1	10	µg/kg (ppb)
Xylazine	15	µg/kg (ppb)

Method Reference EXT_VISCOSITY_BO STWICK_COVANCE	Method Name Viscosity- Bostwick*	Sample Weight 500 g	Turnaround Time Routine 12
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Matrices and Comments

Liquids

Analytes	QL	UOM	Variation
Viscosity		cm	

Method options listed above may be matrix dependent.

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Method Reference EXT_VISCOSITY_BR OOKFIELD_COVAN CE	Method Name Viscosity- Brookfield*	Sample Weight 300 g	Turnaround Time Routine 12
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Matrices and Comments

Liquids

Analytes	QL	UOM	Variation
Viscosity		cP	

Method Reference NQA-01-3229	Method Name Vitamin B12 by HPLC	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

Vitamin premix

Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Vitamin B12	1	µg/g	

Method Reference LI-00.649	Method Name Vitamin B12 by UPLC-UV	Sample Weight 100 g	Turnaround Time Routine 7
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Matrices and Comments

Milk- and soy-based infant formula, infant cereals, breakfast cereals, beverages, clinical nutrition, raw materials
(demineralized whey powder, skimmed milk and acid whey protein) and vitamin premixes

Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Vitamin B12	0.1	µg/100g	

Method options listed above may be matrix dependent.

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Method Reference NQA-00-3106	Method Name Vitamin C Determination by HPLC	Sample Weight 50 g (separate container required for liquids)	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Vitamin premixes, fruits, juice products, infant formula, enteral feeding products, frozen dinners and food products
Isoascorbic acid request must be specified.
Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Vitamin C as Ascorbic acid	0.5	mg/100g	
Vitamin C as Isoascorbic acid	0.5	mg/100g	VIT_C_IA

Method Reference LI-00.608	Method Name Vitamins A, E, D, and K by UHPSFC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Infant formula, healthcare nutritional products, cereals, culinary, oils, and premixes

Select required vitamins The default for Vitamin D and K is D3 and K1. Please specify on analysis request form if you are in need of D2 and . Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Vitamin A as IU	10	IUA/100g	
Vitamin A as RE	3	µgRE/100g	
Vitamin D2	0.2	µg/100g	
Vitamin D3	0.2	µg/100g	
Vitamin E (dl-alpha-tocopherol)	0.3	IUE/100g	
Vitamin E as alpha tocopherol equivalent	0.2	mgTE/100g	
Vitamin K1	2	µg/100g	
Vitamin K2	2	µg/100g	

Method options listed above may be matrix dependent.

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Method Reference LI-00.610	Method Name Vitamins B1, B2, B3, B6 & Biotin (Multi-B) by UPLC-MS/MS	Sample Weight 50 g	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Fortified finished products, infant formula, healthcare products, infant cereals and cocoa beverages, vitamin premix

Select required vitamins. Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Biotin	1.6 - 6.4	µg/100g	
Vitamin B1 - as Thiamine base	0.02 - 0.1	mg/100g	
Vitamin B1 - Thiamine hydrochloride	0.025-0.13	mg/100g	
Vitamin B2 - Riboflavin	0.02 - 0.1	mg/100g	
Vitamin B3 - Niacin	0.12-0.5	mg/100g	
Vitamin B6 - Pyridoxine base	0.02 - 0.1	mg/100g	

Method Reference LI-03.703	Method Name Vitamins B1, B2, B3, B6 and Folic Acid	Sample Weight 50 g	Turnaround Time Routine 7
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Matrices and Comments

vitamin premix and water

Select each required vitamin. Provide Certificate of Analysis (COA) for premixes

Analytes	QL	UOM	Variation
Vitamin B1 - as Thiamine hydrochloride	0.615	mg/g	
Folic Acid	80	µg/g	
Vitamin B1 - as Thiamine base	0.5	mg/g	
Vitamin B1 - as Thiamine mononitrate	0.635	mg/g	
Vitamin B2	0.5	mg/g	
Vitamin B3 - Niacinamide	0.5	mg/g	
Vitamin B6	0.1	mg/g	

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Method Reference NQA-00-8350	Method Name Volatile Organic Compounds (VOC) by Purge and Trap GC-MS	Sample Weight Originals (minimum 50 g)	Turnaround Time Routine 14 Rush 7
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Matrices and Comments

Food and coffee

FOOD variation includes all analytes Coffee samples includes the analytes indicated

Analytes	QL	UOM	Variation
1,1,1-Trichloroethane	2	µg/kg	COFFEE
1,1,2,2-Tetrachloroethane	2	µg/kg	COFFEE
1,1,2-Trichloroethane	2	µg/kg	COFFEE
1,1,-Dichloropropene	2	µg/kg	
1,1-Dichloroethane	2	µg/kg	COFFEE
1,1-Dichloroethene	2	µg/kg	COFFEE
1,2,3-Trichlorobenzene	2	µg/kg	
1,2,3-Trichloropropane	2	µg/kg	
1,2,4-Trichlorobenzene	2	µg/kg	
1,2,4-Trimethylbenzene	2	µg/kg	
1,2-Dibromo-3-chloropropane	2	µg/kg	
1,2-Dibromoethane	2	µg/kg	
1,2-Dichlorobenzene	2	µg/kg	
1,2-Dichloroethane	2	µg/kg	COFFEE
1,2-Dichloropropane	2	µg/kg	
1,3,5-Trimethylbenzene	2	µg/kg	
1,3-Dichlorobenzene	2	µg/kg	
1,3-Dichloropropane	2	µg/kg	
1,4-Dichlorobenzene	2	µg/kg	
2-Chlorotoluene	2	µg/kg	
4-Chlorotoluene	2	µg/kg	
4-Isopropyltoluene	2	µg/kg	
Benzene	2	µg/kg	
Bromobenzene	2	µg/kg	

Method options listed above may be matrix dependent.

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Bromochloromethane	2	µg/kg	
Bromodichloromethane	2	µg/kg	
Bromoform	2	µg/kg	
Bromomethane	2	µg/kg	
c 1,3-Dichloropropene	2	µg/kg	
Carbon Tetrachloride	2	µg/kg	COFFEE
Chlorobenzene	2	µg/kg	
Chloroethane	2	µg/kg	
Chloroform	2	µg/kg	COFFEE
Chloromethane	2	µg/kg	
cis 1,2-Dichloroethene	2	µg/kg	COFFEE
Dibromochloromethane	2	µg/kg	
Dibromomethane	2	µg/kg	
Dichlorodifluoromethane	2	µg/kg	
Ethylbenzene	2	µg/kg	
Hexachlorobutadiene	2	µg/kg	
iso-Propylbenzene	2	µg/kg	
m&p Xylenes	4	µg/kg	
Methylene Chloride	2	µg/kg	COFFEE
Naphthalene	2	µg/kg	
n-Butylbenzene	2	µg/kg	
n-Propylbenzene	2	µg/kg	
o-Xylene	2	µg/kg	
sec-Butylbenzene	2	µg/kg	
Styrene	2	µg/kg	
t 1,2-Dichloroethene	2	µg/kg	COFFEE
t 1,3-Dichloropropene	2	µg/kg	
tert-Butylbenzene	2	µg/kg	
Tetrachloroethene	2	µg/kg	COFFEE
Toluene	2	µg/kg	
Trichloroethene	2	µg/kg	COFFEE
Trichlorofluoromethane	2	µg/kg	

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Vinyl Chloride	2	µg/kg
Benzene	0.7	µg/L
m&p Xylenes	4	µg/kg
o-Xylene	2	µg/kg
Trichloroethene	2	µg/kg

Method Reference EXT_WALNUT	Method Name Walnut (as allergen)*	Sample Weight Original (minimum 100 g)	Turnaround Time Routine 7
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Matrices and Comments

Food and swabs

Requires a negative control sample when submitting a food sample matrix.

Analytes	QL	UOM	Variation
Walnut	2.5	ppm	

Method Reference LI-00.014	Method Name Water Activity	Sample Weight Original (minimum 10 g)	Turnaround Time Routine 3
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Matrices and Comments

Foodstuff and ingredients

Analytes	QL	UOM	Variation
Temperature Result		N/A	
Water Activity Result		N/A	

Method Reference External_XRD	Method Name X-Ray Diffraction (XRD)	Sample Weight Depends on availability	Turnaround Time Routine 21 Rush 10
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Matrices and Comments

XRD is an X-ray based analytical tool that can be used to identify salts, metals, minerals and crystalline materials.

Analytes	QL	UOM	Variation

Method options listed above may be matrix dependent.

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Method Reference NQA-00.8325	Method Name X-Ray Fluorescence (XRF)	Sample Weight Depends on availability	Turnaround Time Routine 7 Rush 5
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Matrices and Comments

Metals, Alloy identification, Glass, Heavy Metals.

Analytes	QL	UOM	Variation
XRF			

Method options listed above may be matrix dependent.

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