

Fapas


Food Chemistry

Proficiency Testing
Programme

2017



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Proficiency Testing from 





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Who We Are

FAPAS[®] is the leading global provider of proficiency testing schemes, quality control samples and reference materials in the food sector, offering products throughout the year.

Proficiency testing is an independent check of your laboratory procedures providing you with a completely confidential assessment of your capability. Not only does participation in the relevant testing schemes allow you to demonstrate your systems and the technical ability of your staff, it will also help you gain and maintain ISO/17025 accreditation.

Established in 1990, we are an experienced, accredited provider of proficiency tests for the food and water, environmental chemistry and microbiology sectors. Taking part in our proficiency tests provides you with the confidence in your laboratory equipment, methods and staff, and assurance that you are delivering the quality results required by your customers.

We provide our participants with a confidential service that allows you to participate at a level that suits you; there is no minimum number of proficiency tests that you must take part in each year. Our system provides an easy reporting facility via our website and our comprehensive reports, which receive rigorous statistical analysis, contain method comparisons.

We also offer quality control samples and reference materials from selected food chemistry proficiency tests which can be purchased easily through our website throughout the year.

Our four FAPAS proficiency testing schemes cover food chemistry, food microbiology, GM and water and environmental analysis.



Fapas Proficiency Tests

Proficiency Testing in Food Chemistry

Proficiency testing is an essential part of laboratory quality procedures. Taking part gives you confidence in your laboratory equipment, methods and staff, and assurance that you are delivering the quality results demanded by your customers.

Fapas covers chemical analysis of real food samples for a wide range of target analytes including: nutritional components, additives, natural contaminants, pesticide and veterinary medicine residues, and



packaging chemical migrants.

Participation can be at a level that suits your business – from taking part in one of our scheduled tests through to company-specific closed tests. Quality control materials are available for your own quality checks or for training purposes.

Results from each proficiency test receive rigorous statistical analysis, ensuring you have clear feedback on your performance. Comprehensive reports provide information on analytical methods used by other participants. We can provide problem-solving consultancy on your laboratory procedures if required.

Participation in Fapas is easy. Arrangements can be made through our network of agents, or via our website, www.fapas.com. Fapas Food Chemistry follows international guidelines for proficiency testing and is accredited by UKAS to ISO/IEC 17043.



Halal

We are pleased to announce the launch of our new Halal Proficiency Testing Scheme which focuses on pork and alcohol contamination in a range of food products. With pork we inspect the DNA sequence order structure of specific meats as they are different, and with alcohol we can test at very low levels, due to the nature of alcohol molecules being very volatile.

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
16/05/2017	3105 ^F	beef	pork (DNA)	2 x 30 g
29/08/2017	3106 ^F	beverage	alcohol (ethanol)	2 x 200 ml
13/11/2017	3107 ^F	beef	pork (DNA)	2 x 30 g

Footnotes

^F test incurs courier charges



Nutritional Analysis

As nutritional legislation increases, the proficiency of laboratories to provide accurate results to food manufacturers for labelling is critical, to help consumers make informed choices about the food they eat. Fapas offers the widest range of analyte/matrix PT combinations for the food sector.

Nutritional Components

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
19/01/2017	01113	canned meat	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
17/02/2017	25149	cheese & pasta meal	moisture, ash, total fat, nitrogen, sodium & chloride	100 g
17/02/2017	2471	wheat flour	moisture at 130°C, ash, nitrogen & total dietary fibre by AOAC	150 g
28/02/2017	25150 ^F	butter	moisture, total fat, non-fat solids, pH & chloride	200 g
17/03/2017	25151	canned fish	total volatile basic nitrogen (TVB-N)	150 g

Footnotes

^F test incurs courier charges

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present).



Nutritional Components (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
23/03/2017	01114	canned meat meal	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
29/03/2017	25152	corn/maize snack food	moisture, ash, total fat, nitrogen, sodium & chloride	50 g
20/04/2017	2472	porridge oats	moisture at 130°C, ash, total fat, nitrogen & total dietary fibre by AOAC	150 g
28/04/2017	25153	fish paste	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
12/05/2017	01115	canned meat	moisture, ash, total fat, nitrogen & hydroxyproline	150 g
24/05/2017	25154	condensed milk	moisture, ash, total fat, nitrogen & total sugars	150 ml
29/06/2017	25155	milkshake powder	fructose, galactose, glucose, lactose, maltose & sucrose	50 g
06/07/2017	2473	cereal	moisture at 130°C, ash, nitrogen & total dietary fibre by AOAC	150 g
12/07/2017	01116	canned meat	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
31/07/2017	25156 ^F	chocolate	moisture, total fat, nitrogen, butyric acid, lactose & sucrose	150 g
24/08/2017	01117	canned meat meal	total fat, saturated fatty acids, protein, total sugars & salt	150 g
08/09/2017	25157	canned fish	total volatile basic nitrogen (TVB-N)	150 g
21/09/2017	2474	breadcrumbs	moisture, ash, nitrogen, starch, sodium & total dietary fibre by AOAC	150 g

Footnotes

^F test incurs courier charges

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present).



Nutritional Components (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
13/10/2017	01118	canned meat	moisture, ash, total fat, nitrogen & hydroxyproline	150 g
03/11/2017	25158	milk powder	moisture, ash, total fat, nitrogen, titratable acidity & lactose	50 g
17/11/2017	01119	canned meat meal	moisture, ash, total fat, nitrogen, sodium, chloride & total sugars	150 g
10/11/2017	2475	biscuit (cookie)	moisture, ash, total fat, nitrogen & total dietary fibre by AOAC	150 g

Footnotes

^F test incurs courier charges

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present).



Nutritional Elements

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
03/03/2017	1889	infant formula (milk based)	calcium, copper, iodine, iron, magnesium, manganese, phosphorus, potassium, selenium & sodium	50 g
20/07/2017	1890	breakfast cereal	calcium, iron, magnesium, phosphorus, potassium, sodium & zinc	50 g
08/11/2017	1891	milk powder	calcium, iodine, magnesium, phosphorus, potassium, selenium & sodium	50 g



Vitamins

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
03/02/2017	21103	breakfast cereal	vitamins B ₁ , B ₂ (total), B ₆ , B ₁₂ , total niacin & folic acid	100 g
10/03/2017	21104	powdered baby food	vitamins A, B ₁₂ , C & E	100 g
01/06/2017	21105	infant formula (milk based)	vitamins A, C, D ₃ & E	50 g
11/07/2017	21106 ^F ^φ	fruit purée	vitamin C	100 g
11/09/2017	21107 ^F	liquid vitamin supplement	vitamins B ₁ , B ₂ (total) & B ₆	40 ml

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale



Oils & Fats

The rancidity of fats and oils is determined by the level of oxidation in a sample. There are various forms of rancidity testing which are tested through the Fapas range of proficiency tests. Testing is important to demonstrate the quality and shelf life of a product.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
31/01/2017	14169 ^{Fφ}	olive oil	peroxide value, acidity, anisidine value & iodine value	100 ml
08/03/2017	14170	edible oil	saturates, mono-unsaturates & poly-unsaturates	30 ml
07/03/2017	14171 ^{Fφ}	olive oil	peroxide value, acidity, K ₂₃₂ & K ₂₇₀	100 ml
19/04/2017	14172	infant formula (may contain LC-PUFAs)	total fat, saturates, mono-unsaturates, poly-unsaturates, total trans fatty acids (& possibly individual fatty acids: linoleic acid, α-linolenic acid (ALA), ARA & DHA)	50 g
02/05/2017	14173 ^F	mixed fat spread	total fat, saturates, mono-unsaturates, poly-unsaturates & total trans fatty acids	50 g
12/06/2017	14174 ^{Fφ*}	edible oil	peroxide value, acidity, anisidine value & iodine value	100 ml
05/07/2017	14175	vegetable oil	saturates, mono-unsaturates & poly-unsaturates & limited fatty acid profile	30 ml
31/07/2017	14176 ^{Fφ}	olive oil	peroxide value, acidity, anisidine value & iodine value	100 ml

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale

* lower levels of PV than usual FAPAS tests. European trial only (to be extended to rest of world in 2018 after further stability studies)



Oils & Fats (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
21/08/2017	14177 ^F	mixed fat spread (may contain LC-PUFAs)	Total fat, saturates, mono-unsaturates, poly-unsaturates, total trans fatty acids, total omega-3 & total omega-6 series fatty acids, (& <i>possibly</i> individual omega-3 & omega-6 fatty acids)	50 g
05/09/2017	14178 ^{Fϕ}	olive oil	peroxide value, acidity, K ₂₃₂ & K ₂₇₀	50 ml
22/09/2017	14179	fish oil	individual omega-3 & omega-6 series fatty acids (& <i>possibly</i> individual omega-9 fatty acids)	30 ml
24/10/2017	14180 ^{Fϕ}	biscuit (cookie)	total fat, saturates, mono-unsaturates & poly-unsaturates, total trans fatty acids & butyric acid	50 g
28/11/2017	14181 ^F	mixed fat spread	total fat, butyric acid & cholesterol	50 g

Footnotes

^F test incurs courier charges

^{ϕ} test has a shortened timescale



Food Ingredients

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
11/01/2017	20136	tomato sauce	brix, pH, total acidity, sodium, chloride & benzoic acid	150 g
20/03/2017	20137 ^F	meat	sulphur dioxide	100 g
17/05/2017	20138	jam	brix, pH, benzoic acid, citric acid & sorbic acid	70 g
22/06/2017	20139	chocolate cake mix	caffeine, sorbic acid, theobromine & total sugars (expressed as sucrose)	50 g

Footnotes

^F test incurs courier charges

^S both qualitative & quantitative results can be submitted

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present)



Food Ingredients (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
20/07/2017	20140 [§]	sugar confectionary (boiled sweets)	permitted colours up to 4 selected from the following list: Allura Red, Brilliant Blue FCF, Carmoisine, Erythrosine, Green S, Indigo Carmine, Patent Blue V, Ponceau 4R, Quinoline Yellow, Sunset Yellow FCF, Tartrazine	50 g
01/08/2017	20141 ^F	dried apricot (water/fruit slurry)	sulphur dioxide	100 g
21/09/2017	20142	oil	antioxidants: total BHA (E320), total BHT (E321) & propyl gallate (E310)	50 ml
04/10/2017	20143 [§]	hot pepper sauce (or similar)	non-permitted colours (illegal dyes) high level, up to 4 selected from the following list: Butter Yellow (Dimethyl Yellow), Orange II, Para Red, Rhodamine B, Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Black B, Sudan Orange G, Sudan Red B, Sudan Red 7B, Sudan Red G, Toluidine Red	50 ml
28/11/2017	20144 ^F	dried apple (water/fruit slurry)	sulphur dioxide	100 g
12/12/2017	20145 ^F	meat	sulphur dioxide	100 g

Footnotes

^F test incurs courier charges

[§] both qualitative & quantitative results can be submitted



Alcoholic Drinks, Fruit Juice & Soft Drinks

Drinks contain a variety of additives used to enhance flavour, shelf life or nutritional composition. Some additives are undesirable, including artificial colours, excess sugar or processing by-products. These proficiency tests support analyses carried out by the drinks industry and regulators.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
08/02/2017	03135	cola drink	benzoic acid, caffeine, acesulfame-K & saccharin	150 ml
01/03/2017	0863	pineapple juice	ash, brix, pH, total acidity, total sugars, calcium, magnesium, potassium & sodium	250 ml
02/03/2017	03136	soft drink	sweeteners: acesulfame-K, aspartame, cyclamate, steviol glycosides (E960) & saccharin	2 x 150 ml
30/03/2017	1380	whisky	alcoholic strength, ethanal (acetaldehyde), ethyl acetate, methanol, propan-1-ol, 2-methylpropanol & 2-methylbutanol + 3-methylbutanol (sum)	200 ml

Footnotes

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present)



Alcoholic Drinks, Fruit Juice & Soft Drinks (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
11/05/2017	0864	apple juice	brix, pH, total acidity, total sugars, calcium, phosphorus, potassium & sodium	250 ml
25/05/2017	03137	ground coffee	caffeine (2 test materials supplied ,one regular, one decaffeinated)	2 x 30 g
14/07/2017	03138	soft drink	brix, pH, citric acid, sorbic acid, cyclamate, saccharin & benzoic acid	150 ml
18/08/2017	03139 [§]	soft drink	up to 4 colours from the following list: Allura Red, Brilliant Blue FCF, Carmoisine, Erythrosine, Green S, Indigo Carmine, Patent Blue V, Ponceau 4R, Quinoline Yellow, Sunset Yellow FCF, Tartrazine	150 ml
30/08/2017	1381	wine	alcoholic strength, total SO ₂ , total acidity & volatile acidity	220 ml
06/09/2017	0865	orange juice	brix, pH, citric acid, fructose, glucose, sucrose, total sugars, calcium, magnesium, phosphorus & potassium	250 ml
19/10/2017	03140	cola drink	caffeine, benzoic acid, total sugars & phosphoric acid (as P ₂ O ₅)	150 ml
01/11/2017	0866	grape juice	brix, pH, total acidity, total sugars, calcium, magnesium, potassium & sodium	250 ml
16/11/2017	03141	tonic water	benzoic acid, quinine, acesulfame-K & aspartame	150 ml
22/11/2017	1382	brandy	alcoholic strength, butan-1-ol, ethanal (acetaldehyde), ethyl acetate, methanol, propan-1-ol, 2-methylpropanol & 2-methylbutanol + 3-methylbutanol (sum) & ethyl carbamate	200 ml

Footnotes

total sugars = that measured by a defined titration method (e.g. Lane-Eynon, Luff-Schoorl, Munson Walker) or, if measured by HPLC, the sum of fructose, glucose, sucrose, lactose, galactose and maltose (NB not all sugars may be present)

[§] participants can report qualitative and/or quantitative results



Honey

Honey intended for human consumption must meet a specific composition detailed in the EU Honey Directive. The analytes listed below are important determinands in evaluating the quality of honey.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
20/03/2017	2836 ^F	honey	moisture, fructose, glucose, sucrose, hydroxymethylfurfural (HMF), diastase, free acid	100 g
27/06/2017	2837 ^F	honey	moisture, fructose, glucose, sucrose, hydroxymethylfurfural (HMF) & diastase	100 g
06/11/2017	2838 ^F	honey ^A	fructose, glucose, sucrose, hydroxymethylfurfural (HMF), diastase, electrical conductivity, lead (Pb) & pH	100 g

Footnotes

^F test incurs courier charges

^A this test material may be adulterated honey



Feeding Stuffs

Please note that there are other proficiency tests in the Programme with animal feed as the matrix, see: 02336, 07299, 09112, 04299, 04303, 04311, 04324, 04327, 17168, 17178, 22135, 22137, 22144, 22147 & 3074

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
25/01/2017	10147	premix	calcium, magnesium, manganese, phosphorus, sodium & zinc	150 g
24/03/2017	10148	dairy ration	moisture, ash, total oil, protein, crude fibre, iron, magnesium, manganese & selenium	225 g
04/05/2017	10149	sheep feed	copper	20 g
16/06/2017	10150	pig ration	moisture, ash, total oil, protein, crude fibre, aNDF, vitamin E & zinc	150 g
29/09/2017	10151	soya bean meal (extracted)	moisture, ash, protein & crude fibre	150 g



Feeding Stuffs (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
03/11/2017	10152	pet dog food (dry)	moisture, ash, protein, total oil, crude fibre, starch, total sugars & water activity	150 g
07/11/2017	10153 ^F	pet cat food (wet)	moisture, ash, protein, total oil	150 g
08/12/2017	10154	poultry ration	moisture, ash, total oil, protein, crude fibre, starch, total sugars, calcium & phosphorus	225 g

Footnotes

^F test incurs courier charges



Authenticity

With food authenticity under the spotlight, consumers are demanding assurance that their food is what it says it is. Is that burger really beef? The ability to determine the authenticity of foods can prevent mislabelling, substitution of cheaper ingredients, and adulteration. All of which are risks in the supply chain.

All of the meat based authenticity tests are qualitative tests (presence/absence) to determine whether adulteration/contamination of any other species has occurred.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
01/02/2017	2971 ^D	beef	one or more from: chicken, horse, lamb or pork	30 g
05/04/2017	2972 ^D	chicken	one or more from: beef, lamb, pork or turkey	30 g
21/07/2017	2973 ^D	lamb	one or more from: beef, chicken, goat or pork	30 g

Footnotes

^D freeze dried matrix, to be reconstituted (by participants) prior to testing

^F test incurs courier charges



Authenticity (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
23/10/2017	2974 ^F	fish	identification of unknown fish (3 samples) selected from the following list: <i>Gadus macrocephalus</i> , (Telesius 1810) <i>Gadus morhua</i> , (Linnaeus 1758) <i>Hippoglossus hippoglossus</i> , (Linnaeus 1758) <i>Limanda limanda</i> , (Linnaeus 1758) <i>Melanogrammus aeglefinus</i> , (Linnaeus 1758) <i>Merlangius merlangus</i> , (Linnaeus 1758) <i>Merluccius merluccius</i> , (Linnaeus 1758) <i>Pangasius hypophthalmus</i> , (Sauvage 1878) <i>Pleuronectes platessa</i> , (Linnaeus 1758) <i>Pollachius virens</i> , (Linnaeus 1758) <i>Theragra chalcogramma</i> , (Pallas 1814)	3 x 10 g
30/11/2017	2975	herb (<i>Origanum spp.</i>)	detection of adulteration of <i>Origanum spp.</i> with other herb or non-herb leaves	3 x 7 g

Footnotes

^F test incurs courier charges

Allergens

As the number of people with life-threatening allergies increases and international legislation on allergen management increases, the requirement to demonstrate your allergen testing capabilities increases. Testing for food allergens is essential for protecting consumers and verifying the allergen status of food ingredients and products.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
09/02/2017	27192 [§]	infant soya formula	milk (BLG)	2 x 20 g
26/01/2017	27191 [§]	cooked biscuit	gluten, milk and egg	30 g
10/02/2017	27193 [§]	flour	peanut, peanut protein	2 x 20 g
23/02/2017	27194 [§]	infant soya formula	milk (casein) & gluten	2 x 20 g
16/03/2017	27195 [§]	flour	lupin	2 x 20 g
16/03/2017	27196 [‡]	cooked biscuit	hazelnut, peanut	50 g

Footnotes

[§] two test materials supplied and both qualitative & quantitative results can be submitted

◆ qualitative assessment only

^F test incurs courier charges

[‡] both qualitative & quantitative results can be submitted



Allergens (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
31/03/2017	27197	canned fish	histamine (high level >50 mg/kg)	145 g
13/04/2017	27198 [§]	cake mix	egg, egg white protein	2 x 20 g
28/04/2017	27199 [§]	garlic powder	peanut, peanut protein	2 x 20 g
03/05/2017	27200 [§]	cake mix	gluten	2 x 20 g
26/05/2017	27201 [§]	chocolate	hazelnut, hazelnut protein	2 x 20 g
09/06/2017	27202 [♦]	instant soup powder	celery, mustard	2 x 20 g
23/06/2017	27203 [§]	infant breakfast cereal	milk (casein)	2 x 20 g
13/07/2017	27204 [§]	cake mix	gluten, milk and egg	2 x 30 g
28/07/2017	27205 [§]	oat based foodstuff	gluten	2 x 20 g
10/08/2017	27206	canned fish	histamine (low level, <50 mg/kg)	145 g

Footnotes

♦ qualitative assessment only

§ two test materials supplied and both qualitative & quantitative results can be submitted



Allergens (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
07/09/2017	27207 [§]	chocolate	almond, almond protein	2 x 20 g
27/09/2017	27208 [§]	wheat flour	soya, soya protein	2 x 20 g
03/10/2017	27209 ^F	jam	sulphites	80 g
24/10/2017	27210 ^F	beer	gluten	2 x 50 ml
02/11/2017	27211	canned fish	histamine (high level >50 mg/kg)	145 g
30/11/2017	27212 [♦]	chocolate	contamination (presence/absence) of matrix with one or more from the following list: Almond, (<i>Amygdalus communis</i> L.) Hazelnut, (<i>Corylus avellana</i>) Walnut, (<i>Juglans regia</i>) Cashew, (<i>Anacardium occidentale</i>) Pecan nut, (<i>Carya illinoensis</i> (Wangenh.) K. Koch) Brazil nut, (<i>Bertholletia excelsa</i>) Pistachio nut, (<i>Pistacia vera</i>) Macadamia/Queensland nut, (<i>Macadamia ternifolia</i>) Peanut, (<i>Arachis hypogaea</i>)	50 g

Footnotes

♦ qualitative assessment only

§ two test materials supplied and both qualitative & quantitative results can be submitted

F test incurs courier charges



Migration – Overall & Specific

Foods are packaged in materials intended to protect the product, increase its shelf life and make it more attractive to the consumer. Those same packaging materials, however, could actually leach undesirable chemicals into the food. Bisphenol A has received a lot of media attention due to its presence in products intended for use by infants.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
24/03/2017	1279 ^B	food simulant (oil)	phthalates	2 x 50 ml
27/04/2017	1155	nylon film	overall migration into ethanol by total immersion	6 sheets, each 12 cm x 16 cm
08/06/2017	1280	food simulant (3% w/v acetic acid in water)	melamine	50 ml
12/07/2017	1281	food simulant (50% w/v ethanol)	bisphenol A	50 ml

Footnotes

^B includes blank matrix



Migration – Overall & Specific (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
15/09/2017	1282	food simulant (3% w/v acetic acid in water)	formaldehyde	50 ml
20/10/2017	1283	food simulant (3% w/v acetic acid in water)	total primary aromatic amines	>300 ml
25/10/2017	1156	plastic film	overall migration into olive oil by total immersion	33 cm x 22.5 cm
29/11/2017	1284	food simulant (3% w/v acetic acid in water)	barium, cobalt, copper, iron, lithium, manganese & zinc	50 ml



Environmental Contaminants

The occurrence of Polycyclic Aromatic Hydrocarbons (PAHs) in foodstuffs is a major source of exposure to these carcinogenic compounds for humans. Given the risk to human health from PAHs in food, the European Commission established maximum levels for PAHs and identified a group of 4 PAHs as indicators based on occurrence and toxicity in EC 1881/2006. These include benzo[a]pyrene (BaP), benz[a]anthracene (BaA), benzo[b]fluoranthene (BbF) and chrysene (CHR).

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
01/03/2017	0670	palm oil	PAHs (including PAH4 sum)	30 ml
31/05/2017	0671	cocoa butter	all 16 EU priority PAHs (including PAH4 sum)	50 g
12/09/2017	0672 ^F	smoked fish product	PAHs (including PAH4 sum)	50 g
23/11/2017	0673	spirulina	all 16 EU priority PAHs (including PAH4 sum)	15 g

Footnotes

^F test incurs courier charges



Acrylamide, Furan, 3-MCPD, Melamine

Industrial chemicals such as acrylamide and melamine are known to be harmful to human health if consumed and are strictly regulated. There have been cases of adulteration where melamine has been added to food to artificially increase its apparent protein content. Therefore, the ability to accurately measure its presence is important to retailers and consumers.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
31/01/2017	3070 ^{Fφ}	coffee	furan	50 g
16/02/2017	3071	potato crisps	acrylamide	50 g
15/03/2017	3072	infant formula	melamine & cyanuric acid (> 5 mg/kg)	50 g
22/03/2017	2650	soy sauce	3-MCPD, 1,3-DCP & 2-MCPD	40 g
04/05/2017	3073	vegetable crisps	acrylamide	50 g
21/06/2017	3074	animal feed	melamine & cyanuric acid	50 g
27/07/2017	3075	biscuit (cookie)	acrylamide	50 g
13/09/2017	2651	vegetable oil	3-MCPD esters, glycidol esters & 2-MCPD esters	50 ml
26/09/2017	3076 ^F	french fries (pre-cooked)	acrylamide	50 g
12/10/2017	3077	milk powder	melamine & cyanuric acid (low levels, <5 mg/kg)	50 g
10/11/2017	3078	coffee (instant)	acrylamide	50 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale



Nitrate & Nitrite

These are chemicals used in fertilisers and as food preservatives and are often detected in contaminated drinking water, cured meat products as well as in fruit and vegetables. Exposure at high levels can result in severe health issues particularly with infants, where they can be exposed through drinking water in infant formula.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
15/02/2017	15118 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
03/03/2017	15119 ^φ	milk powder	nitrate as NaNO ₃ & nitrite as NaNO ₂	40 g
19/05/2017	15120 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
25/07/2017	15121 ^F	cabbage purée	nitrate	70 g
29/08/2017	15122 ^F	lettuce purée	nitrate	70 g
06/10/2017	15123 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
31/10/2017	15124 ^F	rocket (<i>rucola</i>) purée	nitrate	70 g
11/12/2017	15125 ^F	spinach purée	nitrate	70 g

Footnotes

^{DD} freeze dried matrix, **not** to be reconstituted (by participants) prior to testing

^φ test has a shortened timescale

^F test incurs courier charges



Veterinary Drug Residues

Veterinary drugs are frequently used to treat disease and promote healthy livestock to improve the quality or yield of meat and animal products. This introduces the risk of veterinary drug residues and their metabolites entering the food chain if they persist in the animal products and their presence is tightly regulated.

We intend to use material containing **incurred residues** wherever possible. Refer to the list on page 35 for details of potential residues in tests where only general categories are stated.



Veterinary Drug Residues (continued)

dispatch date	test details			
	code	matrix	analyte	approximate quantity
03/01/2017	02315 ^{Fφ}	fish muscle	malachite green, leucomalachite green & total malachite green	20 g
	02315b	blank fish muscle	BLANK (only available if ordered with test 02315)	20 g
24/01/2017	02316 ^{Fφ#}	honey	tetracyclines	20 g
	02316b	blank honey	BLANK (only available if ordered with test 02316)	20 g
06/02/2017	02317 ^{Fφ#}	chicken muscle	quinolones & fluoroquinolones	20 g
06/02/2017	02318 ^{Fφ#}	pig muscle	nitrofurans metabolites	20 g
13/03/2017	02319 ^{Fφ#}	prawns	tetracyclines	20 g
	02319b	blank prawns	BLANK (only available if ordered with test 02319)	20 g
27/03/2017	02320 ^{Fφ#}	pig liver	sulfonamides	20 g
03/04/2017	02321 ^{Fφ#}	honey	chloramphenicol, thiamphenicol & florfenicol	20 g
	02321b	blank honey	BLANK (only available if ordered with test 02321)	20 g

Footnotes

^F test incurs courier charges

[#] test includes identification and quantification of analytes

^φ test has a shortened timescale



Veterinary Drug Residues (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
25/04/2017	02322 ^{Fφ#}	fish muscle	quinolones & fluoroquinolones	20 g
	02322b	blank fish muscle	BLANK (only available if ordered with test 02322)	20 g
15/05/2017	02323 ^{Fφ#}	bovine milk	ivermectins	25 ml
30/05/2017	02324 ^{Fφ#}	pig liver	β-agonists	20 g
06/06/2017	02325 ^{Fφ#}	fish muscle	illegal dyes (veterinary drugs)	20 g
	02325b	blank fish muscle	BLANK (only available if ordered with test 02325)	20 g
12/06/2017	02326 ^{Fφ#}	bovine urine	synthetic hormones	25 ml
	02326b	blank bovine urine	BLANK (only available if ordered with test 02326)	25 ml
26/06/2017	02327 ^{Fφ#}	pig liver	tetracyclines	20 g
17/07/2017	02328 ^{Fφ#}	honey	quinolones & fluoroquinolones	20 g
	02328b	blank honey	BLANK (only available if ordered with test 02328)	20 g
08/08/2017	02329 ^{Fφ#}	chicken muscle	coccidiostats	20 g
08/08/2017	02330 ^{Fφ#}	chicken muscle	nitroimidazoles	20 g
18/09/2017	02331 ^{Fφ}	bovine milk	chloramphenicol & thiamphenicol	25 ml
18/09/2017	02332 ^{Fφ#}	bovine milk	β-lactams (penicillins & cephalosporins)	25 ml
25/09/2017	02333 ^{Fφ#}	sheep liver	ivermectins & anthelmintics	40 g
16/10/2017	02334 ^{Fφ#}	fish muscle	nitrofurantoin metabolites	20 g
	02334b	blank fish muscle	BLANK (only available if ordered with test 02334)	20 g

Footnotes

^F test incurs courier charges

[#] test includes identification and quantification of analytes

^φ test has a shortened timescale



Veterinary Drug Residues (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
16/10/2017	02335 ^{Fφ#}	fish muscle	tetracyclines	20 g
	02335b	blank fish muscle	BLANK (only available if ordered with test 02335)	20 g
25/10/2017	02336 [#]	animal feed	coccidiostats & chloramphenicol (contaminant levels)	50 g
21/11/2017	02337 ^{Fφ}	prawns	chloramphenicol	20 g
	02337b	blank prawns	BLANK (only available if ordered with test 02337)	20 g
21/11/2017	02338 ^{Fφ#}	honey	nitroimidazoles & aminoglycosides (streptomycin & dihydrostreptomycin)	40 g
	02338b	blank honey	BLANK (only available if ordered with test 02338)	40 g
11/12/2017	02339 ^{Fφ#}	bovine liver	glucocorticoids	20 g

Footnotes

^F test incurs courier charges

[#] test includes identification and quantification of analytes

^φ test has a shortened timescale



Veterinary Drug Category List

Potential veterinary drug residues in tests where only general categories are stated.

β-agonists	bromchlorbuterol, bromobuterol, cimaterol, cimbuterol, clenbuterol, clenpenterol , clenproperol, hydroxyclenbuterol, hydroxymethylclenbuterol, isoxsuprine, mabuterol, mapenterol, ractopamine, salbutamol, salmeterol, terbutaline, tulobuterol, zilpaterol, total β-agonists
anthelmintics	albendazole sulfone, albendazole-2-amino-sulfone, albendazole sulfoxide, total albendazole sulfone, closantel, fenbantel, fenbendazole, oxfendazole, oxfendazole sulfone, total oxfendazole sulfone, flubendazole, levamisole, mebendazole, hydroxymebedazole, mebendazole amine, total mebendazole, nitroxynil, thiabendazole, triclabendazole, triclabendazole sulfone, triclalabendazole sulfoxide, ketotriclabendazole, total triclabendazole sulfone, total avermectins, total benzimidazoles
avermectins	abamectin, doramectin, emamectin, eprinomectin, ivermectin, moxidectin, total avermectins
cephalosporins	cefalexin, cefalonium, cefapirin, desacetylcefapirin, cefazolin, cefoperazone, cefquinome
coccidiostats	clopidol, decoquinate, diclazuril, nicarbazin as DNC, halofuginone, lasalocid, maduramycin, monensin, narasin, robenidine, salinomycin, semduramycin, toltrazuril sulfone
glucocorticoids	betamethasone, dexamethasone, prednisolone, total glucocorticoids
illegal dyes (veterinary drugs)	malachite green, leucomalachite green, total malachite green, crystal violet, leucocrystal violet, total crystal violet, brilliant green
nitrofurans metabolites	AHD (bound), AHD (total), AOZ (bound), AOZ (total), AMOZ (bound), AMOZ (total), SEM (bound), SEM (total), total nitrofurans
nitroimidazoles	dimetridazole, 2-hydroxydimetridazole, ipronidazole, 2-hydroxyipronidazole, metronidazole, 2-hydroxymetronidazole, ronidazole, total nitroimidazoles
penicillins	amoxicillin, ampicillin, benzylpenicillin (Penicillin G), Penicillin V, cloxacillin, dicloxacillin, nafcillin, oxacillin
quinolones & fluoroquinolones	flumequine, nalidixic acid, oxolinic acid, ciprofloxacin, danofloxacin, difloxacin, enrofloxacin, marbofloxacin, norfloxacin, sarafloxacin, total quinolones
sulfonamides	sulfachloropyridazine, sulfadiazine, sulfadimethoxine, sulfadimidine (sulfamethazine), sulfadoxine, sulfaguanadine, sulfamerazine, sulfamethizole, sulfamethoxazole, sulfamethoxyipyridazine, sulfamonomethoxine, sulfamoxole, sulfanilamide, sulfapyridine, sulfaquinoxaline, sulfathiazole, sulfisoxazole, total sulfonamides
synthetic hormones	α-boldenone, methylboldenone, diethylstilbestrol (DES), dienestrol, hexoestrol, methyltestosterone, α-nortestosterone, stanozolol, 16β-hydroxystanozolol, trenbolone, zeranol, total synthetic hormones
tetracyclines	chlortetracycline (total), doxycycline, oxytetracycline (total), tetracycline (total), total tetracyclines (all)



Mycotoxins – Aflatoxins & Multi-Mycotoxins

Mycotoxins are toxic secondary metabolites produced by fungi on agricultural commodities in the field or during storage. It is estimated that 25% of the world's food crops are affected, resulting in large commercial losses. Fapas has introduced multi-mycotoxin proficiency tests as well as those for emerging mycotoxins.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
22/02/2017	04305	maize	aflatoxins B & G &/or total	55 g
07/02/2017	04306 ^F	pistachio (water/nut slurry)	aflatoxins B & G &/or total	100 g
09/02/2017	04307	maize	aflatoxin B1 &/or total, DON, ZON & OTA	150 g
24/02/2017	04308	milk powder	aflatoxin M ₁	55 g
09/03/2017	04309	black pepper	aflatoxins B & G &/or total & OTA	75 g

Footnotes

^F test incurs courier charges



Mycotoxins – Aflatoxins & Multi-Mycotoxins (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
21/03/2017	04310 ^F	peanut (water/nut slurry)	aflatoxins B & G &/or total	100 g
06/04/2017	04311	animal feed (cereal based)	aflatoxins B & G &/or total	55 g
12/04/2017	04312	maize	aflatoxin B1, DON, ZON, OTA, FB1 & FB2 & total fumonisins (as a sum of FB1 & FB2), T-2 & HT-2 toxins & as sum of T-2 & HT-2 toxins	200 g
26/04/2017	04313	infant food	contamination of matrix with two or more from the following list: aflatoxins B & G &/or total, OTA, ZON, DON, FB1 & FB2 & total fumonisins (as a sum of FB1 & FB2) & T-2 & HT-2 toxins & as sum of T-2 & HT-2 toxins	200 g
09/05/2017	04314 ^F	almond (water/nut slurry)	aflatoxins B & G &/or total	100 g
24/05/2017	04315	maize	aflatoxins B & G &/or total	55 g
07/06/2017	04316	milk powder	aflatoxin M1	55 g
14/06/2017	04317	paprika	aflatoxins B & G &/or total & OTA	100 g
04/07/2017	04318 ^F	hazelnut (water/nut slurry)	aflatoxins B & G &/or total	100 g
03/08/2017	04319	maize	aflatoxin B1, DON, ZON, OTA, FB1 & FB2 & total fumonisins (as a sum of FB1 & FB2), T-2 & HT-2 toxins & as sum of T-2 & HT-2 toxins	200 g
22/08/2017	04320 ^F	dried figs (water/fruit slurry)	aflatoxins B & G &/or total & OTA	150 g

Footnotes

^F test incurs courier charges

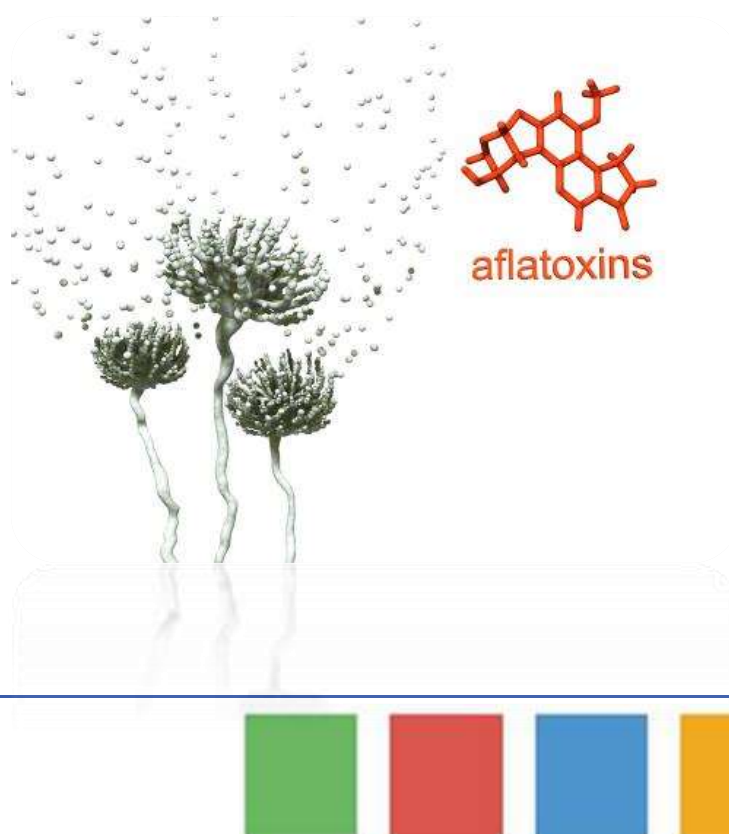


Mycotoxins – Aflatoxins & Multi-Mycotoxins (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
14/09/2017	04321	chilli powder	aflatoxins B & G &/or total & OTA	100 g
26/09/2017	04322 ^F	peanut (water/nut slurry)	aflatoxins B & G &/or total	100 g
05/10/2017	04323	milk powder	aflatoxin M1	55 g
18/10/2017	04324	animal feed (cereal based)	aflatoxins B & G &/or total	55 g
09/11/2017	04325	maize	aflatoxin B1, DON, ZON & OTA	150 g
23/11/2017	04326	rice	aflatoxins B & G &/or total	55 g
06/12/2017	04327	animal feed (cereal based)	contamination of matrix with two or more from the following list: aflatoxin B1, OTA, ZON, DON, FB1 & FB2 & total fumonisins (as a sum of FB1 & FB2)	200 g

Footnotes

^F test incurs courier charges



Mycotoxins – Patulin

Fapas intends to use incurred test materials for the preparation of the patulin proficiency tests where possible.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
07/02/2017	1662 ^F	apple juice (clear)	patulin	50 ml
02/05/2017	1663 ^F	apple purée	patulin	60 g
25/07/2017	1664 ^F	pear purée	patulin	60 g
31/10/2017	1665 ^F	apple juice (cloudy)	patulin	50 ml

Footnotes

^F test incurs courier charges



Mycotoxins – Ochratoxin A

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
18/01/2017	17170	wheat flour	ochratoxin A	55 g
15/02/2017	17171	grain (as flour)	ochratoxin A & citrinin	100 g
03/04/2017	17172^F	dried vine fruit (raisin) (water/fruit slurry)	ochratoxin A	100 g
25/05/2017	17173	barley flour	ochratoxin A	55 g
21/07/2017	17174	green coffee	ochratoxin A	55 g
09/08/2017	17175	paprika	ochratoxin A	55 g
13/09/2017	17176	instant coffee	ochratoxin A	55 g
19/10/2017	17177	maize flour	ochratoxin A	55 g
08/11/2017	17178	animal feed	ochratoxin A	55 g
01/12/2017	17179	roasted coffee	ochratoxin A	55 g

Footnotes

^F test incurs courier charges



Mycotoxins – Fusarium Toxins / Plant Toxins

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
20/01/2017	22138	breakfast cereal	deoxynivalenol (DON) & zearalenone (ZON)	55 g
15/03/2017	22139	rye flour	ergot alkaloids: contamination of matrix with two or more from ergometrine, ergotamine, ergosine, ergocristine, ergocryptine & ergocornine & their related-inines	55 g
05/04/2017	22140	oat flour	T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	55 g
22/06/2017	22141	maize oil (refined)	zearalenone (ZON)	55 g
25/07/2017	22142	maize flour	FB1 & FB2 and total fumonisins (as a sum of FB1 & FB2)	55 g
16/08/2017	22143	maize flour	trichothecenes: nivalenol, DON, 3 Ac DON, 15 Ac DON, T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	150 g
07/09/2017	22144	animal feed	deoxynivalenol (DON), zearalenone (ZON), T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	75 g
28/09/2017	22145	cereal-based food (processed)	tropane alkaloids: atropine & scopolamine	55 g
11/10/2017	22146	wheat flour	deoxynivalenol (DON), zearalenone (ZON), T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	75 g
15/11/2017	22147	animal feed	T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	55 g



Metallic Contaminants

The presence of metals such as arsenic, cadmium, lead and mercury in food is of particular concern due to their toxicity. These naturally occurring chemicals can occur as residues in food by a range of mechanisms such as their natural presence in the environment or contamination during food processing and storage. Their accumulation in the body can lead to harmful effects over time and their presence in foodstuffs is strictly regulated.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
20/01/2017	07277	milk powder	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g
25/01/2017	07278	soft drink	antimony, arsenic (total), cadmium, chromium, copper & zinc (all high levels)	50 ml
03/02/2017	07279	canned crab meat	arsenic (total), arsenic (inorganic), cadmium, lead & mercury (total) (all natural levels)	150 g

Footnotes

^F test incurs courier charges



Metallic Contaminants (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
14/02/2017	07280^F	tomato paste	cadmium, iron, lead & tin (all high levels)	50 g
08/03/2017	07281	canned fish	arsenic (total), mercury (total) & methyl mercury (all natural levels)	150 g
28/03/2017	07282^F	grapefruit purée	cadmium, lead, iron & tin (all high levels)	50 g
06/04/2017	07283	rice cakes	arsenic (inorganic) & arsenic (total) (all natural levels)	35 g
19/04/2017	07284	infant formula	aluminium, cadmium, chromium, iodine, molybdenum & selenium (all natural/low levels)	50 g
10/05/2017	07285	canned fish	arsenic (total), cadmium & mercury (total) (all natural levels)	150 g
23/05/2017	07286	honey	cadmium & lead (all natural/low levels)	50 g
15/06/2017	07287	edible oil	arsenic (total), copper, iron & lead (all high levels)	50 ml
28/06/2017	07288	chilli powder	arsenic (total), cadmium & lead (all high levels)	50 g
07/07/2017	07289	powdered brown rice	arsenic (inorganic), arsenic (total), cadmium, lead & mercury (total) (natural/low levels)	50 g
19/07/2017	07290^{DD}	offal (liver)	arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
02/08/2017	07291	wine	pH, cadmium, copper & lead	50 ml
25/08/2017	07292	canned fish	arsenic (total), cadmium, mercury (total) (all natural levels)	150 g
31/08/2017	07293	milk powder	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g

Footnotes

^{DD} freeze dried matrix, **not** to be reconstituted (by participants) prior to testing

^F test incurs courier charges



Metallic Contaminants (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
20/09/2017	07294	infant cereal	cadmium, chromium, lead, mercury (total) & selenium (all natural/low levels)	50 g
03/10/2017	07295 ^F	fruit juice	cadmium, iron, lead, & tin (all high levels)	50 ml
26/10/2017	07296	soya flour	aluminium, arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
06/11/2017	07297 ^F	vegetable purée	cadmium, lead, nickel & tin (all high levels)	50 g
15/11/2017	07298	powdered rice	arsenic (inorganic), arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
22/11/2017	07299	animal feed	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g
01/12/2017	07300	chocolate	cadmium & lead	50 g

Footnotes

^{DD} freeze dried matrix, **not** to be reconstituted (by participants) prior to testing

^F test incurs courier charges



Pesticide Residues – Animal Products / Fats and Oils

In order to ensure good agricultural practice, pesticide residues are under strict legislation worldwide. Some pesticide residues exhibit bioaccumulation and build up to harmful levels in the body and environment. FAPAS® offers pesticide residues PTs for a range of matrices.

Each test material will contain any number of the pesticides given in **List 1**, except tests: **05117** (infant formula) which will contain any number of the pesticides given in **List 1 & List 2**, **05123** (olive oil) which will contain any number of the pesticides given in **List 3** and test **05124** (processed cheese) which is for chlorate & perchlorate.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
02/02/2017	05117	infant formula (powdered)	selection from List 1 & List 2 (low level – based on EU-MRLs)	50 g
	05117b	blank infant formula (powdered)	BLANK (only available if ordered with test 05117)	50 g
13/03/2017	05118 ^F	chicken eggs	selection from List 1	50 g
	05118b ^F	blank chicken eggs	BLANK (only available if ordered with test 05118)	50 g
24/04/2017	05119 ^F	offal (liver)	selection from List 1	50 g
	05119b ^F	blank offal (liver)	BLANK (only available if ordered with test 05119)	50 g
09/05/2017	05120 ^F	oily fish	selection from List 1	50 g
	05120b ^F	blank oily fish	BLANK (only available if ordered with test 05120)	50 g

Footnotes

^F test incurs courier charges



Pesticide Residues – Animal Products / Fats and Oils (continued)

dispatch date	test details			
	code	matrix	analyte	approximate quantity
26/07/2017	05121	milk powder	selection from List 1	50 g
	05121b	blank milk powder	BLANK (only available if ordered with test 05121)	50 g
18/09/2017	05122 ^F	animal (pork) fat	selection from List 1	50 g
	05122b ^F	blank animal (pork) fat	BLANK (only available if ordered with test 05122)	50 g
12/10/2017	05123	olive oil	selection from List 3	50 g
	05123b	blank olive oil	BLANK (only available if ordered with test 05123)	50 g
20/11/2017	05124 ^F	processed cheese	chlorate & perchlorate	50 g
	05124b ^F	blank processed cheese*	BLANK (only available if ordered with test 05124)	50 g

Footnotes

^F test incurs courier charges

* may not be an identical match to 05124



Potential Pesticide Residues and PCBs – List 1

Potential pesticide residues and PCBs (parent compound only unless otherwise stated)

aldrin	pp'-DDE	fenthion	methoxychlor	vinclozolin
azinphos-ethyl	pp'-DDD (TDE)	fenvalerate (sum of all isomers)	parathion (-ethyl)	PCB 28
bifenthrin	op'-DDT	hexachlorobenzene (HCB)	parathion-methyl	PCB 52
cis-chlordane	pp'-DDT	alpha-hexachlorocyclohexane (α -HCH)	pendimethalin	PCB 101
trans-chlordane	deltamethrin	beta-hexachlorocyclohexane (β -HCH)	permethrin (sum isomers)	PCB 118
oxychlordane	diazinon	gamma- hexachlorocyclohexane (lindane)	pirimiphos-methyl	PCB 138
chlorfenvinphos	dieldrin	delta-HCH (δ -HCH)	profenofos	PCB 153
chlorpyrifos (-ethyl)	alpha-endosulfan (endosulfan I)	heptachlor	pyrazophos	PCB 180
chlorpyrifos-methyl	beta-endosulfan (endosulfan II)	cis-heptachlor epoxide	quintozene	
cyfluthrin (sum isomers)	endosulfan sulfate	indoxacarb	spinosad	
lambda-cyhalothrin	endrin	trans-heptachlor epoxide	tecnazene	
cypermethrin	famoxadone	methidathion	triazophos	

Potential Pesticide Residues – List 2

Potential pesticide residues

cadusafos	fensulfothion oxon sulfone
demeton-S-methyl sulfone	fentin (as triphenyltin cation)
diphenylamine	fipronil (parent only)
disulfoton	haloxyfop
disulfoton sulfoxide	nitrofen
disulfoton sulfone	omethoate
ethoprophos	oxydemeton-methyl
fensulfothion	terbufos
fensulfothion sulfone	terbufos sulfone
fensulfothion oxon	terbufos sulfoxide



Pesticide Residues – Cereals

Each test material (except tests **09106**, **09109** & **09113**) will contain any number of the pesticides given in **List 3**.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
06/03/2017	09107 ^F	bread	selection from list 3	50 g
	09107b ^F	blank bread	BLANK (only available if ordered with test 09107)	50 g
22/02/2017	09108	wheat flour	selection from list 3	50 g
	09108b	blank wheat flour	BLANK (only available if ordered with test 09108)	50 g
21/04/2017	09109	oats	chlormequat, mepiquat & glyphosate	100 g
	09109b	blank oats	BLANK (only available if ordered with test 09109)	100 g

Footnotes

^F test incurs courier charges



Pesticide Residues – Cereals

Each test material (except tests **09106**, **09109** & **09113**) will contain any number of the pesticides given in **List 3**.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
21/06/2017	09110	rice	selection from List 3	50 g
	09110b	blank rice	BLANK (only available if ordered with test 09110)	50 g
17/08/2017	09111	wheat flour	selection from list 3	50 g
	09111b	blank wheat flour	BLANK (only available if ordered with test 09111)	50 g
18/10/2017	09112	animal feed	selection from list 3	50 g
	09112b	blank animal feed	BLANK (only available if ordered with test 09112)	50 g
07/12/2017	09113	wheat flour	chlormequat, mepiquat & glyphosate	100 g
	09113b	blank wheat flour	BLANK (only available if ordered with test 09113)	100 g



Potential Pesticide Residues – List 3

Potential pesticide residues (parent compound only unless otherwise stated)

2,4-D	cyprodinil	fenpropimorph	mandipropamid	propiconazole
2-phenylphenol	cyromazine	fenpyroximate	mecarbam	propoxur
abamectin	pp'-DDD (TDE)	fensulfothion	mepanipyrim	propyzamide
acephate	pp'-DDE	fensulfothion sulfone	metaflumizone (sum)	prosulfocarb
acetamiprid	op'-DDT	fensulfothion oxon	metalaxyl (sum)	prothiofos
acetochlor	pp'-DDT	fensulfothion oxon sulfone	metamitron	pymetrozine
acrinathrin	deltamethrin	fenthion	metconazole	pyraclostrobin
aldicarb	demeton-S-methyl sulfone	fenthion sulfoxide	methacrifos	pyrazophos
aldicarb sulfone (aldoxycarb)	desmethyl-pirimicarb	fenthion sulfone	methamidophos	pyridaben
aldicarb sulfoxide	diafenthiuron	fenvalerate (sum)	methidathion	pyridalyl
aldrin	diazinon	fipronil	methiocarb	pyridaphenthion
allethrin	dichlorvos	fipronil sulfone	methiocarb sulfone	pyrimethanil
anthraquinone	dicloran	flonicamid	methiocarb sulfoxide	pyriproxyfen
atrazine	dicofol	fluazifop-P (free acid)	methomyl	quinalphos
azinphos (-ethyl)	dicrotophos	flubendiamide	methoxychlor	quinoxifen
azinphos-methyl	dieldrin	flucythrinate	methoxyfenozide	quintozene
azoxystrobin	diethofencarb	fludioxonil	metolachlor	spinosad (sum)
benalaxyl	difenoconazole	flufenoxuron	metrafenone	spirodiclofen
bendiocarb	diflubenzuron	fluopicolide	metribuzin	spiromesifen
bifenthrin	dimethoate	fluopyram	mevinphos	spirotetramat
biphenyl	dimethomorph (sum)	fluquinconazole	monocrotophos	spiroxamine
bitertanol	dimoxystrobin	flusilazole	monolinuron	tebuconazole
boscalid	diniconazole	flutolanil	myclobutanil	tebufenozide
bromophos-ethyl	dinotefuran	flutriafol	nitrofen	tebufenpyrad
bromopropylate	diphenylamine	tau-fluvalinate	omethoate	tecnazene
bromuconazole (sum)	disulfoton	fonofos	oxadiazon	teflubenzuron
bupirimate	disulfoton sulfoxide	formothion	oxadixyl	tefluthrin
buprofezin	disulfoton sulfone	fosthiazate	oxamyl	terbufos
cadusafos	DMST	furathiocarb	oxydemeton-methyl (demeton-S-methyl sulfoxide)	terbufos sulfone
captan	dodine	HCB (hexachlorobenzene)	oxyfluorfen	terbutylazine
carbaryl	alpha-endosulfan (endosulfan I)	alpha-HCH	paclobutrazol	tetrachlorvinphos
carbendazim	beta-endosulfan (endosulfan II)	beta-HCH	parathion (-ethyl)	tetraconazole
carbofuran	endosulfan sulfate	gamma-HCH (lindane)	parathion-methyl	tetradifon
3-hydroxycarbofuran	endrin	heptachlor	penconazole	tetramethrin
carboxin	EPN	cis-heptachlor epoxide	pencycuron	TFNA
chlorantraniliprole	epoxiconazole	trans-heptachlor epoxide	pendimethalin	TFNG
cis-chlordane	ethion	heptenophos	pentachloroaniline	thiabendazole
trans-chlordane	ethirimol	hexaconazole	permethrin (sum)	thiacloprid
chlorfenapyr	ethoprophos	hexythiazox	phenthoate	thiamethoxam
chlorfenvinphos (sum)	etofenprox	imazalil	phorate,	thiodicarb
chloridazon	etoxazole	imidacloprid	phorate sulfone	tolclofos-methyl
chlorobenzilate	etrimfos	indoxacarb (sum)	phorate sulfoxide	tolfenpyrad
chlorothalonil	famoxadone	iprodione	phosalone	tolylfluanid
chlorpropham	fenamidone	iprovalicarb	phosmet	triadimefon
chlorpyrifos-ethyl	fenamiphos	isocarbofos	phosphamidon	triadimenol
chlorpyrifos-methyl	fenamiphos sulfoxide	isofenphos (-ethyl)	piperonyl butoxide	triallate
chlorthal-dimethyl	fenamiphos sulfone	isofenphos-methyl	pirimicarb	triazophos
clofentezine	fenarimol	isoprocarb	pirimiphos(-ethyl)	tricyclazole
clothianidin	fenazaquin	isoprothiolane	pirimiphos-methyl	trifloxystrobin
coumaphos	fenbuconazole	isoproturon	prochloraz	triflumuron
cyazofamid	fenbutatin oxide	kresoxim-methyl	procymidone	trifluralin
cyfluthrin (sum)	fenhexamid	lenacil	profenofos	triticonazole
cymoxanil	fenitrothion	linuron	promecarb	vinclozolin
lambda-cyhalothrin	fenoxycarb	lufenuron	prometryn	zoxamide
cypermethrin	fenpropathrin	malaoxon	propamocarb	
cyproconazole	fenpropidin	malathion	propargite	



Pesticide Residues – Fresh Fruits, Vegetables, Tea & Herbs

The fruit, vegetable and herb test matrices will be prepared from fresh fruit, vegetables or herbs that have been made into a purée.

Each test material will contain any number of the pesticides given in **List 3**, except tests: **19233** (prepared fruit) which will contain any number of the pesticides given in **List 4**, **19223** (green tea) & **19243** (green tea) which will contain any number of the pesticides given in **List 5** and tests **19217** (lettuce) **19236** (parsley), **19218** (red grape) & **19239** (pineapple) which are for a single residue.



Pesticide Residues – Fresh Fruits, Vegetables, Tea & Herbs (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
13/02/2017	19225 ^F	potato	pesticide residues from List 3	90 g
	19225b ^F	blank potato	BLANK (only available if ordered with test 19225)	90 g
13/02/2017	19226 ^F	beans (with pods)	pesticide residues from List 3	90 g
	19226b ^F	blank beans (with pods)	BLANK (only available if ordered with test 19226)	90 g
20/02/2017	19227 ^F	apple	pesticide residues from List 3	90 g
	19227b ^F	blank apple	BLANK (only available if ordered with test 19227)	90 g
20/02/2017	19228 ^F	carrot	pesticide residues from List 3	90 g
	19228b ^F	blank carrot	BLANK (only available if ordered with test 19228)	90 g
24/04/2017	19229 ^F	mandarin	pesticide residues from List 3	90 g
	19229b ^F	blank mandarin	BLANK (only available if ordered with test 19229)	90 g
15/05/2017	19230 ^F	tomato	pesticide residues from List 3	90 g
	19230b ^F	blank tomato	BLANK (only available if ordered with test 19230)	90 g
19/06/2017	19231 ^F	cucumber	pesticide residues from List 3	90 g
	19231b ^F	blank cucumber	BLANK (only available if ordered with test 19231)	90 g
19/06/2017	19232 ^F	lettuce	pesticide residues from List 3	90 g
	19232b ^F	blank lettuce	BLANK (only available if ordered with test 19232)	90 g
24/07/2017	19233 ^F	prepared fruit	products of disinfection from List 4	90 g
	19233b ^F	blank prepared fruit	BLANK (only available if ordered with test 19233)	90 g
15/08/2017	19234 ^F	strawberry	pesticide residues from List 3	90 g
	19234b ^F	blank strawberry	BLANK (only available if ordered with test 19234)	90 g
05/09/2017	19235 ^F	banana	pesticide residues from List 3	90 g
	19235b ^F	blank banana	BLANK (only available if ordered with test 19235)	90 g

Footnotes

^F test incurs courier charges



Pesticide Residues – Fresh Fruits, Vegetables, Tea & Herbs (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
19/09/2017	19236 ^{Fφ}	herb (parsley)	dithiocarbamates	90 g
	19236b ^F	blank herb (parsley)	BLANK (only available if ordered with test 1921)	90 g
19/09/2017	19237 ^F	pear	pesticide residues from List 3	90 g
	19237b ^F	blank pear	BLANK (only available if ordered with test 1921)	90 g
09/10/2017	19238 ^F	spinach	pesticide residues from List 3	90 g
	19238b ^F	blank spinach	BLANK (only available if ordered with test 1921)	90 g
23/10/2017	19239 ^F	pineapple	ethephon (single residue)	90 g
	19239b ^F	blank pineapple	BLANK (only available if ordered with test 1921)	90 g
14/11/2017	19240 ^F	plum	pesticide residues from List 3	90 g
	19240b ^F	blank plum	BLANK (only available if ordered with test 1921)	90 g
14/11/2017	19241 ^F	table grapes	pesticide residues from List 3	90 g
	19241b ^F	blank table grapes	BLANK (only available if ordered with test 1921)	90 g
05/12/2017	19242 ^F	dried vine fruit (raisin)	pesticide residues from List 3	90 g
	19242b ^F	blank dried vine fruit (raisin)	BLANK (only available if ordered with test 1921)	90 g
13/12/2017	19243	tea (green)	pesticide residues from List 5	50 g
	19243b	blank tea (green)	BLANK (only available if ordered with test 1921)	50 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale



Potential Pesticide Residues – List 4

chlorate
perchlorate
benzalkonium chloride (BAC-10; BAC-12; BAC-14; BAC-16)
didecyldimethylammonium chloride (DDAC-C10)

Potential Pesticide Residues – List 5

2-phenylphenol	cypermethrin (sum isomers)	beta-endosulfan (endosulfan II)	beta-HCH	pirimiphos-methyl
abamectin	deltamethrin	endosulfan sulfate	gamma-HCH (lindane)	procymidone
acetamiprid	diazinon	ethion	imidacloprid	propargite
anthraquinone	dicofol	fenazaquin	linuron	pyridaben
bifenthrin	dimethoate	fenitrothion	malathion	pyrimethanil
buprofezin	pp'-DDD (TDE)	fenpropathrin	methomyl	quinalphos
chlorfenvinphos	pp'-DDE	fenpropimorph	monocrotophos	terbutylazine
chlorothalonil	op'-DDT	fenvalerate (sum isomers)	oxadixyl	tolfenpyrad
chlorpyrifos-ethyl	pp'-DDT	HCB (hexachlorobenzene)	phenthoate	trifloxystrobin
lambda-cyhalothrin	alpha-endosulfan (endosulfan I)	alpha-HCH	phosalone	



Round No.	Courier	Programme Name	Round Price	Extra Material Price
01113		Food Chemistry: 2017	248.00	70.00
01114		Food Chemistry: 2017	248.00	70.00
01115		Food Chemistry: 2017	248.00	70.00
01116		Food Chemistry: 2017	248.00	70.00
01117		Food Chemistry: 2017	248.00	70.00
01118		Food Chemistry: 2017	248.00	70.00
01119		Food Chemistry: 2017	248.00	70.00
02315	x	Food Chemistry: 2017	340.00	100.00
02315b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02316	x	Food Chemistry: 2017	340.00	100.00
02316b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02317	x	Food Chemistry: 2017	340.00	100.00
02318	x	Food Chemistry: 2017	340.00	100.00
02319	x	Food Chemistry: 2017	340.00	100.00
02319b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02320	x	Food Chemistry: 2017	340.00	100.00
02321	x	Food Chemistry: 2017	340.00	100.00
02321b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02322	x	Food Chemistry: 2017	340.00	100.00
02322b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02323	x	Food Chemistry: 2017	340.00	100.00
02324	x	Food Chemistry: 2017	340.00	100.00
02325	x	Food Chemistry: 2017	340.00	100.00
02325b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02326	x	Food Chemistry: 2017	340.00	100.00
02326b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02327	x	Food Chemistry: 2017	340.00	100.00
02328	x	Food Chemistry: 2017	340.00	100.00
02328b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02329	x	Food Chemistry: 2017	340.00	100.00
02330	x	Food Chemistry: 2017	340.00	100.00
02331	x	Food Chemistry: 2017	340.00	100.00
02332	x	Food Chemistry: 2017	340.00	100.00
02333	x	Food Chemistry: 2017	340.00	100.00
02334	x	Food Chemistry: 2017	340.00	100.00
02334b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02335	x	Food Chemistry: 2017	340.00	100.00
02335b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00



02336		Food Chemistry: 2017	340.00	100.00
02337	x	Food Chemistry: 2017	340.00	100.00
02337b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02338	x	Food Chemistry: 2017	340.00	100.00
02338b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
02339	x	Food Chemistry: 2017	340.00	100.00
03135		Food Chemistry: 2017	248.00	70.00
03136		Food Chemistry: 2017	261.00	70.00
03137		Food Chemistry: 2017	248.00	70.00
03138		Food Chemistry: 2017	248.00	70.00
03139		Food Chemistry: 2017	248.00	70.00
03140		Food Chemistry: 2017	248.00	70.00
03141		Food Chemistry: 2017	248.00	70.00
04305		Food Chemistry: 2017	248.00	70.00
04306	x	Food Chemistry: 2017	248.00	70.00
04307		Food Chemistry: 2017	432.00	140.00
04308		Food Chemistry: 2017	248.00	70.00
04309		Food Chemistry: 2017	332.00	100.00
04310	x	Food Chemistry: 2017	248.00	70.00
04311		Food Chemistry: 2017	248.00	70.00
04312		Food Chemistry: 2017	603.00	180.00
04313		Food Chemistry: 2017	432.00	140.00
04314	x	Food Chemistry: 2017	248.00	70.00
04315		Food Chemistry: 2017	248.00	70.00
04316		Food Chemistry: 2017	248.00	70.00
04317		Food Chemistry: 2017	332.00	100.00
04318	x	Food Chemistry: 2017	248.00	70.00
04319		Food Chemistry: 2017	603.00	180.00
04320	x	Food Chemistry: 2017	332.00	100.00
04321		Food Chemistry: 2017	332.00	100.00
04322	x	Food Chemistry: 2017	248.00	70.00
04323		Food Chemistry: 2017	248.00	70.00
04324		Food Chemistry: 2017	248.00	70.00
04325		Food Chemistry: 2017	432.00	140.00
04326		Food Chemistry: 2017	248.00	70.00
04327		Food Chemistry: 2017	432.00	140.00
05117		Food Chemistry: 2017	261.00	70.00
05117b		BLANK (Food Chem): 2017	79.00	79.00
05118	x	Food Chemistry: 2017	261.00	70.00
05118b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
05119	x	Food Chemistry: 2017	261.00	70.00
05119b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
05120	x	Food Chemistry: 2017	261.00	70.00
05120b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
05121		Food Chemistry: 2017	261.00	70.00



05121b		BLANK (Food Chem): 2017	79.00	79.00
05122	x	Food Chemistry: 2017	261.00	70.00
05122b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
05123		Food Chemistry: 2017	261.00	70.00
05123b		BLANK (Food Chem): 2017	79.00	79.00
05124	x	Food Chemistry: 2017	261.00	70.00
05124b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
0670		Food Chemistry: 2017	472.00	180.00
0671		Food Chemistry: 2017	525.00	180.00
0672	x	Food Chemistry: 2017	472.00	180.00
0673		Food Chemistry: 2017	525.00	180.00
07277		Food Chemistry: 2017	248.00	70.00
07278		Food Chemistry: 2017	248.00	70.00
07279		Food Chemistry: 2017	248.00	70.00
07280	x	Food Chemistry: 2017	248.00	70.00
07281		Food Chemistry: 2017	248.00	70.00
07282	x	Food Chemistry: 2017	248.00	70.00
07283		Food Chemistry: 2017	248.00	70.00
07284		Food Chemistry: 2017	248.00	70.00
07285		Food Chemistry: 2017	248.00	70.00
07286		Food Chemistry: 2017	248.00	70.00
07287		Food Chemistry: 2017	248.00	70.00
07288		Food Chemistry: 2017	248.00	70.00
07289		Food Chemistry: 2017	248.00	70.00
07290		Food Chemistry: 2017	248.00	70.00
07291		Food Chemistry: 2017	248.00	70.00
07292		Food Chemistry: 2017	248.00	70.00
07293		Food Chemistry: 2017	248.00	70.00
07294		Food Chemistry: 2017	248.00	70.00
07295	x	Food Chemistry: 2017	248.00	70.00
07296		Food Chemistry: 2017	248.00	70.00
07297	x	Food Chemistry: 2017	248.00	70.00
07298		Food Chemistry: 2017	248.00	70.00
07299		Food Chemistry: 2017	248.00	70.00
07300		Food Chemistry: 2017	248.00	70.00
0863		Food Chemistry: 2017	248.00	70.00
0864		Food Chemistry: 2017	248.00	70.00
0865		Food Chemistry: 2017	261.00	70.00
0866		Food Chemistry: 2017	248.00	70.00
09107	x	Food Chemistry: 2017	248.00	70.00
09107b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
09108		Food Chemistry: 2017	248.00	70.00
09108b		BLANK (Food Chem): 2017	79.00	79.00
09109		Food Chemistry: 2017	248.00	70.00
09109b		BLANK (Food Chem): 2017	79.00	79.00
09110		Food Chemistry: 2017	248.00	70.00
09110b		BLANK (Food Chem): 2017	79.00	79.00



09111		Food Chemistry: 2017	248.00	70.00
09111b		BLANK (Food Chem): 2017	79.00	79.00
09112		Food Chemistry: 2017	248.00	70.00
09112b		BLANK (Food Chem): 2017	79.00	79.00
09113		Food Chemistry: 2017	248.00	70.00
09113b		BLANK (Food Chem): 2017	79.00	79.00
10147		Food Chemistry: 2017	248.00	70.00
10148		Food Chemistry: 2017	472.00	140.00
10149		Food Chemistry: 2017	248.00	70.00
10150		Food Chemistry: 2017	261.00	70.00
10151		Food Chemistry: 2017	261.00	70.00
10152		Food Chemistry: 2017	261.00	70.00
10153	x	Food Chemistry: 2017	261.00	70.00
10154		Food Chemistry: 2017	472.00	140.00
1155		Food Chemistry: 2017	248.00	70.00
1156		Food Chemistry: 2017	294.00	147.00
1279		Food Chemistry: 2017	248.00	70.00
1280		Food Chemistry: 2017	248.00	70.00
1281		Food Chemistry: 2017	248.00	70.00
1282		Food Chemistry: 2017	248.00	70.00
1283		Food Chemistry: 2017	248.00	70.00
1284		Food Chemistry: 2017	248.00	70.00
1380		Food Chemistry: 2017	340.00	100.00
1381		Food Chemistry: 2017	340.00	100.00
1382		Food Chemistry: 2017	340.00	100.00
14169	x	Food Chemistry: 2017	248.00	70.00
14170		Food Chemistry: 2017	248.00	70.00
14171	x	Food Chemistry: 2017	248.00	70.00
14172		Food Chemistry: 2017	248.00	70.00
14173	x	Food Chemistry: 2017	248.00	70.00
14174	x	Food Chemistry: 2017	248.00	70.00
14175		Food Chemistry: 2017	248.00	70.00
14176	x	Food Chemistry: 2017	248.00	70.00
14177	x	Food Chemistry: 2017	248.00	70.00
14178	x	Food Chemistry: 2017	248.00	70.00
14179		Food Chemistry: 2017	248.00	70.00
14180	x	Food Chemistry: 2017	248.00	70.00
14181	x	Food Chemistry: 2017	248.00	70.00
15118		Food Chemistry: 2017	248.00	70.00
15119		Food Chemistry: 2017	248.00	70.00
15120		Food Chemistry: 2017	248.00	70.00
15121	x	Food Chemistry: 2017	248.00	70.00
15122	x	Food Chemistry: 2017	248.00	70.00
15123		Food Chemistry: 2017	248.00	70.00
15124	x	Food Chemistry: 2017	248.00	70.00
15125	x	Food Chemistry: 2017	248.00	70.00
1662	x	Food Chemistry: 2017	248.00	70.00
1663	x	Food Chemistry: 2017	248.00	70.00
1664	x	Food Chemistry: 2017	248.00	70.00



1665	x	Food Chemistry: 2017	248.00	70.00
17170		Food Chemistry: 2017	248.00	70.00
17171		Food Chemistry: 2017	248.00	70.00
17172	x	Food Chemistry: 2017	248.00	70.00
17173		Food Chemistry: 2017	248.00	70.00
17174		Food Chemistry: 2017	248.00	70.00
17175		Food Chemistry: 2017	248.00	70.00
17176		Food Chemistry: 2017	248.00	70.00
17177		Food Chemistry: 2017	248.00	70.00
17178		Food Chemistry: 2017	248.00	70.00
17179		Food Chemistry: 2017	248.00	70.00
1889		Food Chemistry: 2017	261.00	70.00
1890		Food Chemistry: 2017	248.00	70.00
1891		Food Chemistry: 2017	248.00	70.00
19225	x	Food Chemistry: 2017	248.00	70.00
19225b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19226	x	Food Chemistry: 2017	248.00	70.00
19226b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19227	x	Food Chemistry: 2017	248.00	70.00
19227b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19228	x	Food Chemistry: 2017	248.00	70.00
19228b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19229	x	Food Chemistry: 2017	248.00	70.00
19229b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19230	x	Food Chemistry: 2017	248.00	70.00
19230b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19231	x	Food Chemistry: 2017	248.00	70.00
19231b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19232	x	Food Chemistry: 2017	248.00	70.00
19232b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19233	x	Food Chemistry: 2017	248.00	70.00
19233b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19234	x	Food Chemistry: 2017	248.00	70.00
19234b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19235	x	Food Chemistry: 2017	248.00	70.00
19235b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19236	x	Food Chemistry: 2017	332.00	100.00
19236b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
19237	x	Food Chemistry: 2017	248.00	70.00
19237b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00



	test)			
19238	x	Food Chemistry: 2017	248.00	70.00
19238b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19239	x	Food Chemistry: 2017	332.00	100.00
19239b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	104.00	104.00
19240	x	Food Chemistry: 2017	248.00	70.00
19240b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19241	x	Food Chemistry: 2017	248.00	70.00
19241b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19242	x	Food Chemistry: 2017	248.00	70.00
19242b	n/a (onlx avail. with related test)	BLANK (Food Chem): 2017	79.00	79.00
19243		Food Chemistry: 2017	248.00	70.00
19243b		BLANK (Food Chem): 2017	79.00	79.00
20136		Food Chemistry: 2017	248.00	70.00
20137	x	Food Chemistry: 2017	248.00	70.00
20138		Food Chemistry: 2017	248.00	70.00
20139		Food Chemistry: 2017	248.00	70.00
20140		Food Chemistry: 2017	248.00	70.00
20141	x	Food Chemistry: 2017	248.00	70.00
20142		Food Chemistry: 2017	248.00	70.00
20143		Food Chemistry: 2017	248.00	70.00
20144	x	Food Chemistry: 2017	248.00	70.00
20145	x	Food Chemistry: 2017	248.00	70.00
21103		Food Chemistry: 2017	261.00	70.00
21104		Food Chemistry: 2017	261.00	70.00
21105		Food Chemistry: 2017	261.00	70.00
21106	x	Food Chemistry: 2017	261.00	70.00
21107	x	Food Chemistry: 2017	261.00	70.00
22138		Food Chemistry: 2017	332.00	100.00
22139		Food Chemistry: 2017	538.00	171.00
22140		Food Chemistry: 2017	248.00	70.00
22141		Food Chemistry: 2017	248.00	70.00
22142		Food Chemistry: 2017	248.00	70.00
22143		Food Chemistry: 2017	603.00	180.00
22144		Food Chemistry: 2017	385.00	100.00
22145		Food Chemistry: 2017	332.00	100.00
22146		Food Chemistry: 2017	385.00	100.00
22147		Food Chemistry: 2017	248.00	70.00
2471		Food Chemistry: 2017	248.00	70.00
2472		Food Chemistry: 2017	248.00	70.00
2473		Food Chemistry: 2017	248.00	70.00
2474		Food Chemistry: 2017	248.00	70.00
2475		Food Chemistry: 2017	248.00	70.00
25149		Food Chemistry: 2017	248.00	70.00
25150	x	Food Chemistry: 2017	248.00	70.00



25151		Food Chemistry: 2017	248.00	70.00
25152		Food Chemistry: 2017	248.00	70.00
25153		Food Chemistry: 2017	248.00	70.00
25154		Food Chemistry: 2017	248.00	70.00
25155		Food Chemistry: 2017	248.00	70.00
25156	x	Food Chemistry: 2017	248.00	70.00
25157		Food Chemistry: 2017	248.00	70.00
25158		Food Chemistry: 2017	248.00	70.00
2650		Food Chemistry: 2017	261.00	70.00
2651		Food Chemistry: 2017	261.00	70.00
27191		Food Chemistry: 2017	332.00	100.00
27192		Food Chemistry: 2017	261.00	70.00
27193		Food Chemistry: 2017	261.00	70.00
27194		Food Chemistry: 2017	332.00	100.00
27195		Food Chemistry: 2017	261.00	70.00
27196		Food Chemistry: 2017	332.00	100.00
27197		Food Chemistry: 2017	261.00	70.00
27198		Food Chemistry: 2017	261.00	70.00
27199		Food Chemistry: 2017	261.00	70.00
27200		Food Chemistry: 2017	261.00	70.00
27201		Food Chemistry: 2017	261.00	70.00
27202		Food Chemistry: 2017	261.00	70.00
27203		Food Chemistry: 2017	261.00	70.00
27204		Food Chemistry: 2017	332.00	100.00
27205		Food Chemistry: 2017	261.00	70.00
27206		Food Chemistry: 2017	261.00	70.00
27207		Food Chemistry: 2017	261.00	70.00
27208		Food Chemistry: 2017	261.00	70.00
27209	x	Food Chemistry: 2017	261.00	70.00
27210	x	Food Chemistry: 2017	332.00	100.00
27211		Food Chemistry: 2017	261.00	70.00
27212		Food Chemistry: 2017	332.00	100.00
2836	x	Food Chemistry: 2017	261.00	70.00
2837	x	Food Chemistry: 2017	248.00	70.00
2838	x	Food Chemistry: 2017	248.00	70.00
2971		Food Chemistry: 2017	261.00	70.00
2972		Food Chemistry: 2017	261.00	70.00
2973		Food Chemistry: 2017	261.00	70.00
2974	x	Food Chemistry: 2017	261.00	70.00
2975		Food Chemistry: 2017	603.00	210.00
3070	x	Food Chemistry: 2017	248.00	70.00
3071		Food Chemistry: 2017	248.00	70.00
3072		Food Chemistry: 2017	248.00	70.00
3073		Food Chemistry: 2017	248.00	70.00
3074		Food Chemistry: 2017	248.00	70.00
3075		Food Chemistry: 2017	248.00	70.00
3076	x	Food Chemistry: 2017	248.00	70.00
3077		Food Chemistry: 2017	248.00	70.00
3078		Food Chemistry: 2017	248.00	70.00



3105	x	Food Chemistry: 2017	350.00	70.00
3106	x	Food Chemistry: 2017	245.00	70.00
3107	x	Food Chemistry: 2017	350.00	70.00

DISCOUNTS applicable to above prices	
0-20 tests	0%
21-45 tests	5%
46-70 tests	10%
71 tests or more	20%
ADDITIONAL ITEMS	Price EUR (€)
Phytosanitary certificate	58
Additional Customs documentation e.g. declaration letter	45
CARRIAGE CHARGES	Price EUR (€)
EU Courier Charge	85
Non-EU Courier Charge	100
(All prices additional German tax.)	



Technical Information

Protocols

- Protocol part 1: Generic
[\[English\]](#) [\[Español\]](#)
- Protocol part 2: Fapas Food Chemistry
[\[English\]](#) [\[Español\]](#)

Other technical documents

- [Example Report](#)
- On line results submission instructions [\[English\]](#) [\[Español\]](#)
- [Terms & Conditions](#)

ISO Accreditation

The Fapas proficiency testing schemes are accredited by UKAS, Proficiency Testing Provider No. 0009.



Fapas, Fera Science Ltd, National Agri-Food Innovation Campus, York, YO41 1LZ

- <https://fapas.com/sites/default/files/2017-02/Fapas-ISO17043-cert.pdf>

This accreditation confirms that we comply with the requirements of International Standard ISO/IEC 17043:2010

In addition, Fera is accredited by other external bodies to other internationally recognised standards including ISO 9001:2008.

- [Fera's Quality Documentation](#)

Fapas (and other proficiency testing schemes) does not award accreditation. That is the responsibility of national accreditation bodies. A list of national and international accreditation bodies can be found at www.fasor.com/iso25. Results of proficiency testing are used by laboratory accreditation bodies as part of the process to assess the ability of laboratories to perform analytical tests for which accreditation is required.

