

Fapas[®]

Food Chemistry

Proficiency Testing
Programme

2018/2019



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



Halal Compliance

Our halal compliance proficiency tests focus 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
16/04/2018	3108 ^F	beef	pork (DNA)	2 x 30 g
20/08/2018	3109 ^F	beverage	alcohol (ethanol)	2 x 200 ml

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
18/01/2018	01120	canned meat	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
16/02/2018	2476	wheat flour	moisture at 130°C, ash, nitrogen & total dietary fibre by AOAC	150 g
27/02/2018	25160 ^F	butter	moisture, total fat, non-fat solids, pH & chloride	200 g
16/03/2018	25161	canned fish	total volatile basic nitrogen (TVB-N)	150 g
22/03/2018	01121	canned meat meal	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
22/03/2018	25162	corn/maize snack food	moisture, ash, total fat, nitrogen, sodium & chloride	50 g
13/04/2018	2477	porridge oats	moisture at 130°C, ash, total fat, nitrogen & total dietary fibre by AOAC	150 g
26/04/2018	25163	fish paste	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
04/05/2018	01122	canned meat	moisture, ash, total fat, nitrogen & hydroxyproline	150 g
23/05/2018	25164	condensed milk	moisture, ash, total fat, nitrogen & total sugars	150 ml

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			
	code	matrix	analyte	approximate quantity
28/06/2018	25165	milkshake powder	fructose, galactose, glucose, lactose, maltose & sucrose	50 g
05/07/2018	2478	cereal	moisture at 130°C, ash, nitrogen & total dietary fibre by AOAC	150 g
11/07/2018	01123	canned meat	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
24/07/2018	25166 ^F	chocolate	moisture, total fat, nitrogen, butyric acid, lactose & sucrose	150 g
23/08/2018	01124	canned meat meal	total fat, saturated fatty acids, protein, total sugars & salt	150 g
07/09/2018	25167	canned fish	total volatile basic nitrogen (TVB-N)	150 g
20/09/2018	2479	breadcrumbs	moisture, ash, nitrogen, starch, sodium & total dietary fibre by AOAC	150 g
12/10/2018	01125	canned meat	moisture, ash, total fat, nitrogen & hydroxyproline	150 g
02/11/2018	25168	milk powder	moisture, ash, total fat, nitrogen, titratable acidity & lactose	50 g
08/11/2018	2480	biscuit (cookie)	moisture, ash, total fat, nitrogen & total dietary fibre by AOAC	150 g
30/11/2018	01126	canned meat meal	moisture, ash, total fat, nitrogen, sodium, chloride & total sugars	150 g
17/01/2019	01127	canned meat	moisture, ash, total fat, nitrogen, sodium & chloride	150 g
18/01/2019	25169	cheese & pasta meal	moisture, ash, total fat, nitrogen, sodium & chloride	100 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			
	code	matrix	analyte	approximate quantity
15/02/2019	2481	wheat flour	moisture at 130°C, ash, nitrogen & total dietary fibre by AOAC	150 g
26/02/2019	25170 ^F	butter	moisture, total fat, non-fat solids, pH & chloride	200 g
15/03/2019	25171	canned fish	total volatile basic nitrogen (TVB-N)	150 g
21/03/2019	25172	corn/maize snack food	moisture, ash, total fat, nitrogen, sodium & chloride	50 g
27/03/2019	01128	canned meat meal	moisture, ash, total fat, nitrogen, sodium & chloride	150 g

Footnotes

^F test incurs courier charges



Nutritional Elements

dispatch date	test details			
	code	matrix	analyte	approximate quantity
09/03/2018	1892	infant formula (milk based)	calcium, copper, iodine, iron, magnesium, manganese, phosphorus, potassium, selenium & sodium	50 g
18/07/2018	1893	breakfast cereal	calcium, iron, magnesium, phosphorus, potassium, sodium & zinc	50 g
07/11/2018	1894	milk powder	calcium, iodine, magnesium, phosphorus, potassium, selenium & sodium	50 g
08/03/2019	1895	infant formula (milk based)	calcium, copper, iodine, iron, magnesium, manganese, phosphorus, potassium, selenium & sodium	50 g



Vitamins

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
14/02/2018	21108	breakfast cereal	vitamins B ₁ , B ₂ (total), B ₆ , B ₁₂ , total niacin & folic acid	100 g
12/04/2018	21109	powdered baby food	vitamins A, B ₁ , B ₁₂ , C & E	100 g
31/05/2018	21110	infant formula (milk based)	vitamins A, C, D ₃ , E & K ₁	50 g
26/06/2018	21111 ^{Fφ}	fruit purée	vitamin C	100 g
11/09/2018	21112 ^F	liquid vitamin supplement	vitamins B ₁ , B ₂ (total) & B ₆	40 ml
13/02/2019	21113	breakfast cereal	vitamins B ₁ , B ₂ (total), B ₆ , B ₁₂ , total niacin & folic acid	100 g

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		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
09/01/2018	14182 ^{Fφ}	olive oil	peroxide value, acidity, anisidine value & iodine value	100 ml
21/02/2018	14183	vegetable oil	saturates, mono-unsaturates & poly-unsaturates	30 ml
05/03/2018	14184 ^{Fφ}	olive oil	peroxide value, acidity, K ₂₃₂ & K ₂₇₀	100 ml
18/04/2018	14185	infant formula	total fat, saturates, mono-unsaturates, poly-unsaturates, trans fatty acids (& possibly individual fatty acids: linoleic acid, α-linolenic acid (ALA), ARA, DHA & EPA)	50 g
01/05/2018	14186 ^F	mixed fat spread	total fat, saturates, mono-unsaturates, poly-unsaturates & total trans fatty acids	50 g
11/06/2018	14187 ^{Fφ}	vegetable oil	peroxide value (low level, i.e. <3 mEq O ₂ /kg sample), acidity, anisidine value & iodine value	50 ml
04/07/2018	14188	vegetable oil	saturates, mono-unsaturates & poly-unsaturates, total trans fatty acids & fatty acid profile	30 ml
16/07/2018	14189 ^{Fφ}	olive oil	peroxide value, acidity, anisidine value & iodine value	100 ml
20/08/2018	14190 ^F	mixed fat spread (may contain LC-PUFAs)	total fat, saturates, mono-unsaturates, poly-unsaturates, total trans fatty acids, omega-3, omega-6 & omega-9 series fatty acids	50 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale



Oils & Fats (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
04/09/2018	14191 ^{Fφ}	olive oil	peroxide value, acidity, K ₂₃₂ & K ₂₇₀	100 ml
19/09/2018	14192	nut oil	omega-3, omega-6 fatty & omega-9 fatty acids	30 ml
05/10/2018	14193	infant breakfast cereal	saturates, mono-unsaturates, poly-unsaturates, linoleic acid & α-linolenic acid	50 g
23/10/2018	14194 ^{Fφ}	biscuit (cookie)	total fat, saturates, mono-unsaturates, poly-unsaturates, total trans fatty acids & butyric acid	50 g
27/11/2018	14195 ^F	mixed fat spread	total fat, butyric acid & cholesterol	50 g
07/01/2019	14196 ^{Fφ}	olive oil	peroxide value, acidity, anisidine value & iodine value	100 ml
20/02/2019	14197	vegetable oil	saturates, mono-unsaturates & poly-unsaturates	30 ml
12/03/2019	14198 ^{Fφ}	olive oil	peroxide value, acidity, K ₂₃₂ & K ₂₇₀	100 ml

Footnotes^F test incurs courier charges^φ test has a shortened timescale

Food Ingredients

dispatch date	test details			
	code	matrix	analyte	approximate quantity
10/01/2018	20146	tomato sauce	brix, pH, total acidity, sodium, chloride & benzoic acid	150 g
19/03/2018	20147 ^F	meat	sulphur dioxide	100 g
24/04/2018	20148	jam	brix, pH, benzoic acid, citric acid & sorbic acid	70 g
29/05/2018	20149 ^F	prawn	sulphur dioxide	100 g
27/06/2018	20150	chocolate cake mix	caffeine, sorbic acid, theobromine & total sugars (expressed as sucrose)	50 g
19/07/2018	20151 [§]	sugar confectionery (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
30/07/2018	20152 ^F	dried apricot (water/fruit slurry)	sulphur dioxide	100 g
19/09/2018	20153	oil	antioxidants: total BHA (E320), total BHT (E321) & propyl gallate (E310)	50 ml

Footnotes

^F test incurs courier charges

[§] 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
09/10/2018	20154 ^F	dried apple (water/fruit slurry)	sulphur dioxide	100 g
15/11/2018	20155 ^S	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
10/12/2018	20156 ^F	meat	sulphur dioxide	100 g
09/01/2019	20157	tomato sauce	brix, pH, total acidity, sodium, chloride & benzoic acid	150 g
04/03/2019	20158 ^F	meat	sulphur dioxide	100 g

Footnotes^F test incurs courier charges^S 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
12/01/2018	03142	cola drink	benzoic acid, caffeine, acesulfame-K & saccharin	150 ml
01/02/2018	0867	apple juice	brix, pH, total acidity, total sugars, calcium, phosphorus, potassium & sodium	250 ml
01/03/2018	03143	soft drink	sweeteners: acesulfame-K, aspartame, cyclamate, steviol glycosides (E960) & saccharin	2 x 150 ml
29/03/2018	1383	whisky	alcoholic strength, ethanol (acetaldehyde), ethyl acetate, methanol, propan-1-ol, 2-methylpropanol & 2-methylbutanol + 3-methylbutanol (sum)	200 ml
11/05/2018	0868	pineapple juice	ash, brix, pH, total acidity, total sugars, calcium, magnesium, potassium & sodium	250 ml
24/05/2018	03144	ground coffee	caffeine (2 test materials supplied, one regular, one decaffeinated)	2 x 30 g
13/07/2018	03145	soft drink	brix, pH, citric acid, sorbic acid, cyclamate, saccharin & benzoic acid	150 ml
10/08/2018	03146 [§]	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
29/08/2018	1384	wine	alcoholic strength, total SO ₂ , total acidity & volatile acidity	220 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



Alcoholic Drinks, Fruit Juice & Soft Drinks (continued)

dispatch date	test details			
	code	matrix	analyte	approximate quantity
05/09/2018	0869	orange juice	brix, pH, citric acid, fructose, glucose, sucrose, total sugars, calcium, magnesium, phosphorus & potassium	250 ml
18/10/2018	03147	cola drink	caffeine, benzoic acid, total sugars & phosphoric acid (as P ₂ O ₅)	150 ml
31/10/2018	0870	mango juice	brix, pH, total acidity, total sugars, calcium, iron, potassium & sodium	250 ml
07/11/2018	03148	tonic water	benzoic acid, quinine, acesulfame-K & aspartame	150 ml
21/11/2018	1385	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
11/01/2019	03149	cola drink	benzoic acid, caffeine, acesulfame-K & saccharin	150 ml
31/01/2019	0871	apple juice	brix, pH, total acidity, total sugars, calcium, magnesium, phosphorus & sodium	250 ml
20/03/2019	03150	soft drink	sweeteners: acesulfame-K, aspartame, cyclamate, steviol glycosides (E960) & saccharin	2 x 150 ml
28/03/2019	1386	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)



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
19/03/2018	2839 ^F	honey	moisture, fructose, glucose, sucrose, hydroxymethylfurfural (HMF), diastase & free acid	100 g
26/06/2018	2840 ^F	honey	moisture, fructose, glucose, sucrose, hydroxymethylfurfural (HMF) & diastase	100 g
11/12/2018	2841 ^F	honey ^A	fructose, glucose, sucrose, hydroxymethylfurfural (HMF), diastase, electrical conductivity, lead (Pb) & pH	100 g
26/02/2019	2842 ^F	honey	moisture, fructose, glucose, sucrose, hydroxymethylfurfural (HMF), diastase & free acid	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 tests: 04334, 04347, 04351, 07325, 09118, 17187, 22154 & 3083.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
24/01/2018	10155	premix	calcium, magnesium, manganese, phosphorus, sodium & zinc	150 g
21/03/2018	10156	dairy ration	moisture, ash, total oil, protein, crude fibre, iron, magnesium, manganese & selenium	225 g
15/06/2018	10157	pig ration	moisture, ash, total oil, protein, crude fibre, aNDF, vitamin E & zinc	150 g
26/09/2018	10158	soya bean meal (extracted)	moisture, ash, protein & crude fibre	150 g
03/10/2018	10159	pet dog food (dry)	moisture, ash, protein, total oil, crude fibre, starch, total sugars & water activity	150 g
06/11/2018	10160 ^F	pet cat food (wet)	moisture, ash, protein & total oil	150 g
07/12/2018	10161	poultry ration	moisture, ash, total oil, protein, crude fibre, starch, total sugars, calcium & phosphorus	225 g
23/01/2019	10162	premix	calcium, magnesium, manganese, phosphorus, sodium & zinc	150 g
20/03/2019	10163	dairy ration	moisture, ash, total oil, protein, crude fibre, iron, magnesium, manganese & selenium	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
31/01/2018	2976 ^D	beef	one or more from: chicken, horse, lamb or pork	30 g
04/04/2018	2977 ^D	chicken	one or more from: beef, lamb, pork or turkey	30 g
20/07/2018	2978 ^D	lamb	one or more from: beef, chicken, goat or pork	30 g
05/11/2018	2979 ^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
29/11/2018	2980	herb (<i>Origanum spp.</i>)	detection of adulteration of <i>Origanum spp.</i> with other herb or non-herb leaves	3 x 7 g
06/02/2019	2981 ^D	beef	one or more from: chicken, horse, lamb or pork	30 g

Footnotes

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

^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
11/01/2018	27213 [§]	infant soya formula	milk (BLG)	2 x 20 g
25/01/2018	27214 [‡]	cooked biscuit	gluten, milk and egg	30 g
09/02/2018	27215 [§]	chocolate	peanut, peanut protein	2 x 20 g
22/02/2018	27216 [§]	infant soya formula	milk (casein) & gluten	2 x 20 g
15/03/2018	27217 [§]	flour	lupin	2 x 20 g
15/03/2018	27218 [‡]	cooked biscuit	hazelnut, peanut	50 g
28/03/2018	27219	canned fish	histamine (high level >50 mg/kg)	145 g
06/04/2018	27220 [§]	cake mix	egg, egg white protein	2 x 20 g
26/04/2018	27221 [§]	garlic powder	peanut, peanut protein	2 x 20 g
02/05/2018	27222 [§]	cake mix	gluten	2 x 20 g
25/05/2018	27223 [§]	chocolate	hazelnut, hazelnut protein	2 x 20 g
29/05/2018	27224 ^F	cheese	histamine	75 g
08/06/2018	27225 [♦]	instant soup powder	celery, mustard	2 x 20 g
22/06/2018	27226 [§]	infant breakfast cereal	milk (casein)	2 x 20 g
12/07/2018	27227 [§]	cake mix	gluten, milk and egg	2 x 30 g
27/07/2018	27228 [§]	oat based foodstuff	gluten	2 x 20 g
09/08/2018	27229	canned fish	histamine (low level, <50 mg/kg)	145 g

Footnotes

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

[‡] both qualitative & quantitative results can be submitted

^F test incurs courier charges

[♦] qualitative assessment only



Allergens (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
06/09/2018	27230 [§]	chocolate	almond, almond protein	2 x 20 g
26/09/2018	27231 [§]	wheat flour	soya, soya protein	2 x 20 g
02/10/2018	27232 ^F	jam	sulphites	80 g
23/10/2018	27233 ^{F§}	beer	gluten	2 x 50 ml
01/11/2018	27234	canned fish	histamine (high level >50 mg/kg)	145 g
19/11/2018	27235 ^{F†}	sauce (cooked)	fish (cod)	3 x 30 g
29/11/2018	27236 [♦]	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
10/01/2019	27237 [§]	infant soya formula	milk (BLG)	2 x 20 g
24/01/2019	27238 [†]	cooked biscuit	gluten, milk and egg	30 g
08/02/2019	27239 [§]	chocolate	peanut, peanut protein	2 x 20 g
21/02/2019	27240 [§]	infant soya formula	milk (casein) & gluten	2 x 20 g
07/03/2019	27241 [§]	flour	lupin	2 x 20 g
13/03/2019	27242 [†]	cooked biscuit	hazelnut, peanut	50 g
29/03/2019	27243	canned fish	histamine (high level >50 mg/kg)	145 g

Footnotes

^F test incurs courier charges[§] two test materials supplied and both qualitative & quantitative results can be submitted[†] both qualitative & quantitative results can be submitted

♦ qualitative assessment only



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/size
08/03/2018	1285^B	food simulant (oil)	phthalates	2 x 50 ml
19/04/2018	1157	nylon film	overall migration into ethanol by total immersion	6 sheets, each 12 cm x 16 cm
30/05/2018	1286	food simulant (3% w/v acetic acid in water)	melamine	50 ml
11/07/2018	1287	food simulant (50% w/v ethanol)	bisphenol A	50 ml
14/09/2018	1288	food simulant (3% w/v acetic acid in water)	formaldehyde	50 ml
19/10/2018	1289	food simulant (3% w/v acetic acid in water)	total primary aromatic amines	>300 ml
24/10/2018	1158	plastic film	overall migration into olive oil by total immersion	33 cm x 22.5 cm
28/11/2018	1290	food simulant (3% w/v acetic acid in water)	barium, cobalt, copper, iron, lithium, manganese & zinc	50 ml
28/03/2019	1291^B	food simulant (oil)	phthalates	2 x 50 ml

Footnotes

^B includes blank matrix



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
28/02/2018	0674	palm oil	PAHs (including PAH4 sum)	30 ml
09/05/2018	0675	olive oil	all 16 EU priority PAHs (including PAH4 sum)	30 ml
03/07/2018	0676	cocoa butter	PAHs (including PAH4 sum)	50 g
10/09/2018	0677 ^F	smoked fish product	PAHs (including PAH4 sum)	50 g
16/11/2018	0678	food supplement (spirulina)	all 16 EU priority PAHs (including PAH4 sum)	15 g
27/02/2019	0679	palm oil	PAHs (including PAH4 sum)	30 ml

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			
	code	matrix	analyte	approximate quantity
08/01/2018	3079 ^{Fφ}	coffee	furan	50 g
15/02/2018	3080	potato crisps	acrylamide	50 g
14/03/2018	3081	infant formula	melamine & cyanuric acid (> 5 mg/kg)	50 g
21/03/2018	2652	soy sauce	3-MCPD, 1,3-DCP & 2-MCPD	40 g
03/05/2018	3082	vegetable crisps	acrylamide	50 g
16/05/2018	2653	potato crisps	3-MCPD esters, glycidyl esters & 2-MCPD esters	50 g
20/06/2018	3083	animal feed	melamine & cyanuric acid	50 g
26/07/2018	3084	biscuit (cookie)	acrylamide	50 g
12/09/2018	2654	vegetable oil	3-MCPD esters, glycidyl esters & 2-MCPD esters	50 ml
25/09/2018	3085 ^F	french fries (pre-cooked)	acrylamide	50 g
11/10/2018	3086	milk powder	melamine & cyanuric acid (low levels, <5 mg/kg)	50 g
09/11/2018	3087	coffee (instant)	acrylamide	50 g
21/01/2019	3088 ^{Fφ}	coffee	furan, 2-methylfuran & 3-methylfuran	100 g
14/02/2019	3089	potato crisps	acrylamide	50 g
14/03/2019	3090	infant formula	melamine & cyanuric acid (> 5 mg/kg)	50 g
21/03/2019	2655	soy sauce	3-MCPD, 1,3-DCP & 2-MCPD	40 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			
	code	matrix	analyte	approximate quantity
17/01/2018	15126 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
02/03/2018	15127 ^φ	milk powder	nitrate as NaNO ₃ & nitrite as NaNO ₂	40 g
17/05/2018	15128 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
12/06/2018	15129 ^F	cabbage purée	nitrate	70 g
21/08/2018	15130 ^F	lettuce purée	nitrate	70 g
21/09/2018	15131 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
30/10/2018	15132 ^F	rocket (<i>rucola</i>) purée	nitrate	70 g
10/12/2018	15133 ^F	spinach purée	nitrate	70 g
16/01/2019	15134 ^{DDφ}	meat	nitrate as NaNO ₃ & nitrite as NaNO ₂	25 g
01/03/2019	15135 ^φ	milk powder	nitrate as NaNO ₃ & nitrite as NaNO ₂	40 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 30 for details of potential residues in tests where only general categories are stated.

dispatch date	test details			
	code	matrix	analyte	approximate quantity
02/01/2018	02340 ^{Fφ#}	honey	tetracyclines	20 g
	02340b ^F	blank honey	BLANK (only available if ordered with test 02340)	20 g
08/01/2018	02341 ^{Fφ}	fish muscle	malachite green, leucomalachite green & total malachite green	20 g
	02341b ^F	blank fish muscle	BLANK (only available if ordered with test 02341)	20 g
05/02/2018	02342 ^{Fφ#}	chicken muscle	quinolones & fluoroquinolones	20 g
05/02/2018	02343 ^{Fφ#}	fish muscle	chloramphenicol, thiamphenicol, florfenicol & total phenicols	20 g
	02343b ^F	blank fish muscle	BLANK (only available if ordered with test 02343)	20 g
27/02/2018	02344 ^{Fφ#}	pig muscle	sulfonamides	20 g
12/03/2018	02345 ^{Fφ#}	pig kidney	nitrofurans metabolites	20 g
09/04/2018	02346 ^{Fφ#}	honey	chloramphenicol, thiamphenicol, florfenicol & total phenicols	20 g
	02346b ^F	blank honey	BLANK (only available if ordered with test 02346)	20 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale

[#] test includes identification and quantification of analytes



Veterinary Drug Residues (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
24/04/2018	02347 ^{Fφ#}	fish muscle	quinolones & fluoroquinolones	20 g
	02347b ^F	blank fish muscle	BLANK (only available if ordered with test 02347)	20 g
22/05/2018	02348 ^{Fφ#}	fish muscle	avermectins	20 g
	02348b ^F	blank fish muscle	BLANK (only available if ordered with test 02348)	20 g
22/05/2018	02349 ^{Fφ#}	bovine liver	β-agonists	20 g
05/06/2018	02350 ^{Fφ#}	fish muscle	illegal dyes (veterinary drugs)	20 g
	02350b ^F	blank fish muscle	BLANK (only available if ordered with test 02350)	20 g
25/06/2018	02351 ^{Fφ#}	bovine urine	synthetic hormones	25 ml
	02351b ^F	blank bovine urine	BLANK (only available if ordered with test 02351)	25 ml
10/07/2018	02352 ^{Fφ#}	pig muscle	tetracyclines	20 g
24/07/2018	02353 ^{Fφ#}	honey	sulphonamides	20 g
	02353b ^F	blank honey	BLANK (only available if ordered with test 02353)	20 g
07/08/2018	02354 ^{Fφ#}	chicken eggs	coccidiostats	20 g
07/08/2018	02355 ^{Fφ#}	chicken eggs	nitroimidazoles	20 g
28/08/2018	02356 ^{Fφ#}	bovine liver	avermectins & anthelmintics	40 g
24/09/2018	02357 ^{Fφ}	bovine milk	chloramphenicol, thiamphenicol, florfenicol & total phenicols	25 ml
24/09/2018	02358 ^{Fφ#}	bovine milk	β-lactams (penicillins & cephalosporins)	25 ml
15/10/2018	02359 ^{Fφ#}	prawns	nitrofurantol metabolites	20 g
	02359b ^F	blank prawns	BLANK (only available if ordered with test 02359)	20 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale

[#] test includes identification and quantification of analytes



Veterinary Drug Residues (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
15/10/2018	02360 ^{Fφ#}	fish muscle	tetracyclines	20 g
	02360b ^F	blank fish muscle	BLANK (only available if ordered with test 02360)	20 g
22/10/2018	02361 ^{Fφ}	rabbit muscle	coccidiostats & sulphonamides	40 g
20/11/2018	02362 ^{Fφ}	prawns	chloramphenicol	20 g
	02362b ^F	blank prawns	BLANK (only available if ordered with test 02362)	20 g
20/11/2018	02363 ^{Fφ#}	honey	nitroimidazoles & aminoglycosides (streptomycin & dihydrostreptomycin)	40 g
	02363b ^F	blank honey	BLANK (only available if ordered with test 02363)	40 g
04/12/2018	02364 ^{Fφ#}	bovine liver	NSAIDs	20 g
07/01/2019	02365 ^{Fφ#}	fish muscle	sulphonamides	20 g
	02365b ^F	blank fish muscle	BLANK (only available if ordered with test 02365)	20 g
14/01/2019	02366 ^{Fφ}	fish muscle	malachite green, leucomalachite green & total malachite green	20 g
	02366b ^F	blank fish muscle	BLANK (only available if ordered with test 02366)	20 g
04/02/2019	02367 ^{Fφ#}	chicken eggs	quinolones & fluoroquinolones	20 g
19/02/2019	02368 ^{Fφ#}	prawns	tetracyclines	20 g
	02368b ^F	blank prawns	BLANK (only available if ordered with test 02368)	20 g
26/03/2019	02369 ^{Fφ#}	bovine muscle	sulphonamides & trimethoprim	20 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale

[#] test includes identification and quantification of analytes



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, hydroxymebendazole, mebendazole amine, total mebendazole, nitroxylin, thiabendazole, triclabendazole, triclabendazole sulfone, triclabendazole 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, total coccidiostats
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, total veterinary dyes
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
non-steroidal anti-inflammatory drugs (NSAIDs)	carprofen, diclofenac, flunixin, 5-hydroxyflunixin, ibuprofen, meloxicam, naproxen, phenylbutazone, vedaprofen
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, sulfaguanidine, sulfamerazine, sulfamethizole, sulfamethoxazole, sulfamethoxypyridazine, 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			
	code	matrix	analyte	approximate quantity
03/01/2018	04328	maize	aflatoxins B & G &/or total	55 g
16/01/2018	04329 ^F	pistachio (water/nut slurry)	aflatoxins B & G &/or total	100 g
08/02/2018	04330	maize	aflatoxin B1 &/or total, DON, ZON & OTA	150 g
21/02/2018	04331	milk powder	aflatoxin M ₁	55 g
08/03/2018	04332	black pepper	aflatoxins B & G &/or total & OTA	75 g
20/03/2018	04333 ^F	peanut (water/nut slurry)	aflatoxins B & G &/or total	100 g
05/04/2018	04334	animal feed (cereal based)	aflatoxins B & G &/or total	55 g
11/04/2018	04335	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
25/04/2018	04336	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
08/05/2018	04337 ^F	almond (water/nut slurry)	aflatoxins B & G &/or total	100 g
23/05/2018	04338	maize	aflatoxins B & G &/or total	55 g

Footnotes

^F test incurs courier charges



Mycotoxins – Aflatoxins & Multi-Mycotoxins (continued)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
06/06/2018	04339	milk powder	aflatoxin M1	55 g
21/06/2018	04340	paprika	aflatoxins B & G &/or total & OTA	75 g
03/07/2018	04341 ^F	hazelnut (water/nut slurry)	aflatoxins B & G &/or total	100 g
02/08/2018	04342	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
14/08/2018	04343 ^F	dried figs (water/fruit slurry)	aflatoxins B & G &/or total & OTA	150 g
13/09/2018	04344	chilli powder	aflatoxins B & G &/or total & OTA	75 g
25/09/2018	04345 ^F	peanut (water/nut slurry)	aflatoxins B & G &/or total	100 g
04/10/2018	04346	milk powder	aflatoxin M1	55 g
17/10/2018	04347	animal feed (cereal based)	aflatoxins B & G &/or total	55 g
31/10/2018	04348	maize	aflatoxin B1, DON, ZON & OTA	150 g
08/11/2018	04349	ginger	aflatoxins B & G &/or total & OTA	75 g
22/11/2018	04350	rice	aflatoxins B & G &/or total	55 g
07/12/2018	04351	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
02/01/2019	04352	maize	aflatoxins B & G &/or total	55 g
15/01/2019	04353 ^F	pistachio (water/nut slurry)	aflatoxins B & G &/or total	100 g

Footnotes

^F test incurs courier charges

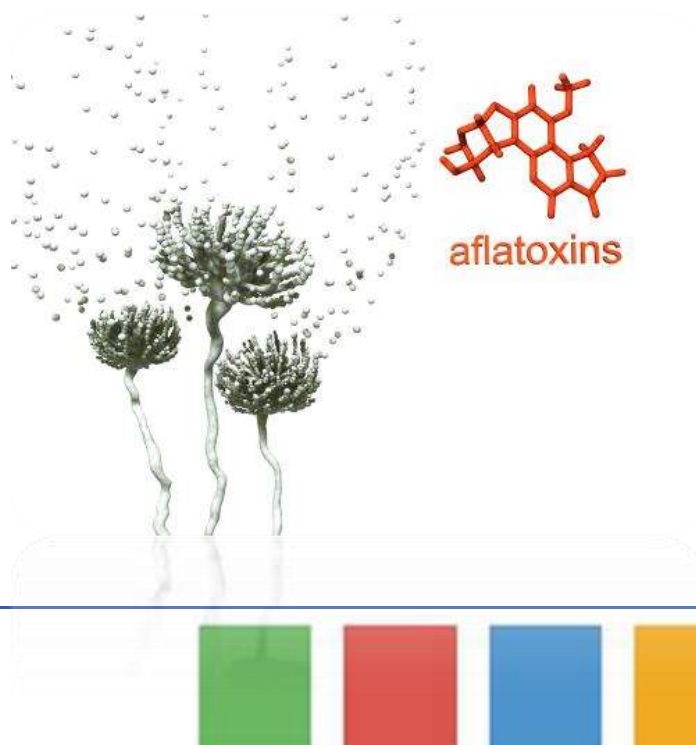


Mycotoxins – Aflatoxins & Multi-Mycotoxins (continued)

dispatch date	test details			
	code	matrix	analyte	approximate quantity
07/02/2019	04354	maize	aflatoxin B1 &/or total, DON, ZON & OTA	150 g
20/02/2019	04355	milk powder	aflatoxin M ₁	55 g
07/03/2019	04356	black pepper	aflatoxins B & G &/or total & OTA	75 g
19/03/2019	04357 ^F	peanut (water/nut slurry)	aflatoxins B & G &/or total	100 g

Footnotes

^F test incurs courier charges



Mycotoxins – Patulin

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
30/01/2018	1666 ^F	apple juice (clear)	patulin	50 ml
01/05/2018	1667 ^F	apple purée	patulin	60 g
30/10/2018	1668 ^F	apple juice (cloudy)	patulin	50 ml
29/01/2019	1669 ^F	apple juice (clear)	patulin	50 ml

Footnotes

^F test incurs courier charges



Mycotoxins – Ochratoxin A

dispatch date	test details			
	code	matrix	analyte	approximate quantity
25/01/2018	17180	wheat flour	ochratoxin A	55 g
28/02/2018	17181	grain (as flour)	ochratoxin A & citrinin	100 g
03/04/2018	17182 ^F	dried vine fruit (raisin) (water/fruit slurry)	ochratoxin A	100 g
24/05/2018	17183	barley flour	ochratoxin A	55 g
20/07/2018	17184	green coffee	ochratoxin A	55 g
06/09/2018	17185	instant coffee	ochratoxin A	55 g
18/10/2018	17186	maize flour	ochratoxin A	55 g
16/11/2018	17187	animal feed	ochratoxin A	55 g
30/11/2018	17188	roasted coffee	ochratoxin A	55 g
24/01/2019	17189	wheat flour	ochratoxin A	55 g
27/02/2019	17190	grain (as flour)	ochratoxin A & citrinin	100 g
19/03/2019	17191 ^F	offal (pork liver)	ochratoxin A	75 g

Footnotes

^F test incurs courier charges



Mycotoxins – Fusarium Toxins / Plant Toxins

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
04/01/2018	22148	breakfast cereal	deoxynivalenol (DON) & zearalenone (ZON)	55 g
14/03/2018	22149	rye flour	ergot alkaloids: contamination of matrix with two or more from ergometrine, ergotamine, ergosine, ergocristine, ergocryptine & ergocornine & their related -inines	55 g
04/04/2018	22150	oat flour	T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	55 g
21/06/2018	22151	maize flour	FB1 & FB2 and total fumonisins (as a sum of FB1 & FB2)	55 g
25/07/2018	22152	dry pasta	deoxynivalenol (DON), T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	75 g
15/08/2018	22153	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
27/09/2018	22154	animal feed	deoxynivalenol (DON), zearalenone (ZON), T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	75 g
10/10/2018	22155	baby food (multigrain)	tropane alkaloids: atropine & scopolamine	30 g
14/11/2018	22156	wheat flour	deoxynivalenol (DON), zearalenone (ZON), T-2 & HT-2 toxins & as a sum of T-2 & HT-2 toxins	75 g
03/01/2019	22157	breakfast cereal	deoxynivalenol (DON) & zearalenone (ZON)	55 g
13/03/2019	22158	rye flour	ergot alkaloids: contamination of matrix with two or more from ergometrine, ergotamine, ergosine, ergocristine, ergocryptine & ergocornine & their related -inines	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			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
05/01/2018	07301	milk powder	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g
24/01/2018	07302	soft drink	antimony, arsenic (total), cadmium, chromium, copper & zinc (all high levels)	50 ml
02/02/2018	07303	canned crab meat	arsenic (total), arsenic (inorganic), cadmium, lead & mercury (total) (all natural levels)	150 g
19/02/2018	07304 ^F	tomato paste	cadmium, iron, lead & tin (all high levels)	50 g
07/03/2018	07305	canned fish	arsenic (total), mercury (total) & methyl mercury (all natural levels)	150 g
27/03/2018	07306 ^F	grapefruit purée	cadmium, lead, iron & tin (all high levels)	50 g
05/04/2018	07307	rice cakes	arsenic (total), arsenic (inorganic), cadmium, lead & mercury (total) (all natural/low levels)	35 g
18/04/2018	07308	infant formula	aluminium, cadmium, chromium, iodine, molybdenum & selenium (all natural/low levels)	50 g
09/05/2018	07309	canned fish	arsenic (total), cadmium & mercury (total) (all natural levels)	150 g
21/05/2018	07310	honey	cadmium & lead (all natural/low levels)	50 g

Footnotes

^F test incurs courier charges



Metallic Contaminants (continued)

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
30/05/2018	07311	wheat flour	aluminium, arsenic (total), cadmium, lead, mercury (total) & nickel (all natural/low levels)	50 g
13/06/2018	07312	edible oil	arsenic (total), copper, iron & lead (all high levels)	50 ml
27/06/2018	07313	turmeric	arsenic (total), cadmium & lead (all high levels)	50 g
06/07/2018	07314	powdered brown rice	arsenic (inorganic), arsenic (total), cadmium, lead & mercury (total) (natural/low levels)	50 g
18/07/2018	07315 ^{DD}	offal (liver)	arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
01/08/2018	07316	wine	pH, cadmium, copper & lead	50 ml
22/08/2018	07317	canned fish	arsenic (total), cadmium, mercury (total) (all natural levels)	150 g
30/08/2018	07318	milk powder	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g
10/09/2018	07319 ^F	squid	cadmium, lead & mercury (total) (all natural/low levels)	50 g
12/09/2018	07320	infant cereal	cadmium, chromium, lead, mercury (total) & selenium (all natural/low levels)	50 g
02/10/2018	07321 ^F	fruit juice	cadmium, iron, lead, & tin (all high levels) arsenic (inorganic) & arsenic (total) (all natural/low levels)	50 ml
24/10/2018	07322	soya flour	aluminium, arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
05/11/2018	07323 ^F	vegetable purée	cadmium, lead, nickel & tin (all high 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			
	code	matrix	analyte	approximate quantity
14/11/2018	07324	powdered rice	arsenic (inorganic), arsenic (total), cadmium, lead & mercury (total) (all high levels)	50 g
28/11/2018	07325	animal feed	arsenic (total), cadmium, lead, mercury (total) & nickel (all natural/low levels)	50 g
06/12/2018	07326	food supplement	cadmium, chromium, lead & mercury (total) (all natural/low levels)	50 g
04/01/2019	07327	milk powder	arsenic (total), cadmium, lead & mercury (total) (all natural/low levels)	50 g
23/01/2019	07328	soft drink	antimony, arsenic (total), cadmium, chromium, copper & zinc (all high levels)	50 ml
01/02/2019	07329	canned crab meat	arsenic (total), arsenic (inorganic), cadmium, lead & mercury (total) (all natural levels)	150 g
11/02/2019	07330 ^F	tomato paste	cadmium, iron, lead & tin (all high levels)	50 g
06/03/2019	07331	canned fish	arsenic (total), mercury (total) & methyl mercury (all natural levels)	150 g
26/03/2019	07332 ^F	grapefruit purée	cadmium, lead, iron & tin (all high levels)	50 g

Footnotes

^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: **05125 & 05132** (infant formula) which will contain any number of the pesticides given in **List 1 & List 2**, **05130** (virgin olive oil) which will contain any number of the pesticides given in **List 4** and test **05131** (prawn) which will contain any number of quaternary ammonium compounds in (**List 3**).

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
17/01/2018	05125	infant formula (powdered)	pesticide residues from List 1 & List 2 (low level – based on EU-MRLs)	50 g
	05125b	blank infant formula (powdered)	BLANK (only available if ordered with test 05125)	50 g
12/03/2018	05126^F	chicken (hens) eggs	pesticide residues from List 1	50 g
	05126b ^F	blank chicken eggs	BLANK (only available if ordered with test 05126)	50 g
08/05/2018	05127^F	oily fish	pesticide residues from List 1	50 g
	05127b ^F	blank oily fish	BLANK (only available if ordered with test 05127)	50 g
25/07/2018	05128	milk powder	pesticide residues from List 1	50 g
	05128b	blank milk powder	BLANK (only available if ordered with test 05128)	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
17/09/2018	05129 ^F	animal (pork) fat	pesticide residues from List 1	50 g
	05129b ^F	blank animal (pork) fat	BLANK (only available if ordered with test 05129)	50 g
10/10/2018	05130	virgin olive oil	pesticide residues from List 4	50 g
	05130b	blank virgin olive oil	BLANK (only available if ordered with test 05130)	50 g
27/11/2018	05131 ^F	prawn	quaternary ammonium compounds from List 3	50 g
	05131b ^F	blank prawn	BLANK (only available if ordered with test 05131)	50 g
16/01/2019	05132	infant formula (powdered)	pesticide residues from List 1 & List 2 (low level – based on EU-MRLs)	50 g
	05132b	blank infant formula (powdered)	BLANK (only available if ordered with test 05132)	50 g
04/03/2019	05133 ^F	chicken (hens) eggs	pesticide residues from List 1	50 g
	05133b ^F	blank chicken eggs	BLANK (only available if ordered with test 05133)	50 g

Footnotes

^F test incurs courier charges



Potential Pesticide Residues and PCBs – List 1

Parent compound only unless otherwise stated

aldrin	azinphos-ethyl	bifenthrin	chlordane (cis)	chlordane (oxy)
chlordane (trans)	chlorfenvinphos (sum of E and Z isomers)	chlorpyrifos (ethyl)	chlorpyrifos-methyl	cyfluthrin (sum of constituent isomers)
cyhalothrin-lambda	cypermethrin (sum of constituent isomers)	DDD-pp (TDE)	DDE-pp	DDT-op
DDT-pp	deltamethrin	diazinon	dieldrin	endosulfan I (alpha)
endosulfan II (beta)	endosulfan-sulfate	endrin	famoxadone	fenthion (parent)
fenvalerate (sum of constituent isomers in any ratio including esfenvalerate)	HCB (hexachlorobenzene)	HCH-A (alpha hexachlorocyclohexane)	HCH-B (beta hexachlorocyclohexane)	HCH-D (delta hexachlorocyclohexane)
HCH-G (gamma hexachlorocyclohexane / lindane)	heptachlor	heptachlor-epoxide (cis)	heptachlor-epoxide (trans)	indoxacarb (sum of indoxacarb and its R enantiomer)
methidathion	methoxychlor	parathion (ethyl)	parathion-methyl	pendimethalin
permethrin (sum of isomers)	pirimiphos-methyl	profenofos	pyrazophos	quintozene
spinosad (sum of spinosyn A and D)	tecnazene	triazophos	vinclozolin	PCB 28
PCB 52	PCB 101	PCB 118	PCB 138	PCB 153
PCB 180				

Potential Pesticide Residues – List 2

Parent compound only unless otherwise stated

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

Potential Pesticide Residues – List 3

BAC 10 (Benzyltrimethyldecylammonium Chloride)	BAC 12 (Benzyltrimethyldodecylammonium Chloride)
BAC 14 (Benzyltrimethyltetradecylammonium Chloride)	BAC 16 (Benzyltrimethylhexadecylammonium Chloride)
DDAC (Didecyltrimethylammonium Chloride)	



Pesticide Residues – Cereals

Each test material (except tests **09115 & 09119**) will contain any number of the pesticides given in List 4.

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
07/02/2018	09114	wheat flour	pesticide residues from List 4	50 g
	09114b	blank wheat flour	BLANK (only available if ordered with test 09114)	50 g
20/04/2018	09115	oats	chlormequat, mepiquat & glyphosate	100 g
	09115b	blank oats	BLANK (only available if ordered with test 09115)	100 g
20/06/2018	09116	brown rice	pesticide residues from List 4	50 g
	09116b	blank brown rice	BLANK (only available if ordered with test 09116)	50 g
16/08/2018	09117	wheat flour	pesticide residues from List 4	50 g
	09117b	blank wheat flour	BLANK (only available if ordered with test 09117)	50 g
17/10/2018	09118	animal feed	pesticide residues from List 4	50 g
	09118b	blank animal feed	BLANK (only available if ordered with test 09118)	50 g
06/12/2018	09119	wheat flour	chlormequat, mepiquat & glyphosate	100 g
	09119b	blank wheat flour	BLANK (only available if ordered with test 09119)	100 g
30/01/2019	09120	basmati rice	pesticide residues from List 4	50 g
	09120b	blank basmati rice	BLANK (only available if ordered with test 09120)	50 g
14/02/2019	09121	wheat flour	pesticide residues from List 4	50 g
	09121b	blank wheat flour	BLANK (only available if ordered with test 09121)	50 g



Potential Pesticide Residues – List 4

Parent compound only unless otherwise stated

2,4-D (free acid only)	2-phenylphenol (ortho-phenylphenol)	acephate	acetamiprid	acetochlor
acrinathrin	aldicarb	aldicarb-sulfone (aldoxycarb)	aldicarb-sulfoxide	aldrin
allethrin	ametoctadin	anthraquinone	atrazine	azinphos-ethyl
azinphos-methyl	azoxystrobin	benalaxyl	bendiocarb	bifenthrin
biphenyl	bitertanol	boscalid	bromophos-ethyl	bromopropylate
bromuconazole (sum of diastereoisomers)	bupirimate	buprofezin	cadusafos	carbaryl
carbendazim	carbofuran	carbofuran (3-hydroxy)	carboxin	Chlorantraniliprole (rynaxypyr)
chlordane (cis)	chlordane (trans)	chlorfenapyr	chlorfenvinphos (sum of E and Z isomers)	chloridazon
chlorobenzilate	chlorothalonil	chlorpropham	chlorpyrifos (ethyl)	chlorpyrifos-methyl
chlorthal-dimethyl	clofentezine	clothianidin	coumaphos	cyazofamid
cyflufenamid	cyfluthrin (sum of constituent isomers)	cyhalothrin-lambda	cymoxanil	cypermethrin (sum of constituent isomers)
cyproconazole	cyprodinil	cyromazine	DDD-pp (TDE)	DDE-pp
DDT-op	DDT-pp	deltamethrin	demeton-S-methyl-sulfone	demeton-S-methyl-sulfoxide (oxydemeton-methyl)
diafenthuron	diazinon	dichlorvos	dicloran	dicofol (sum of p,p' and o,p' isomers)
dicrotophos	dieldrin	diethofencarb	difenoconazole	diflubenzuron
dimethoate	dimethomorph (sum of isomers)	dimoxystrobin	diniconazole	dinotefuran
diphenylamine	disulfoton	disulfoton-sulfone	disulfoton-sulfoxide	diuron
dodine	endosulfan I (alpha)	endosulfan II (beta)	endosulfan-sulfate	endrin
EPN	epoxiconazole	ethiofencarb-sulfoxide	ethion	ethirimol
ethoprophos	etofenprox	etoxazole	etrimfos	famoxadone
fenamidone	fenamiphos	fenamiphos-sulfone	fenamiphos-sulfoxide	fenarimol
fenazaquin	fenbuconazole	fenbutatin oxide	fenhexamid	fenitrothion
fenoxycarb	fenpropathrin	fenpropidin (sum of fenpropidin and its salts, expressed as fenpropidin)	fenpropimorph	fenpyroximate
fensulfothion	fensulfothion-oxon	fensulfothion-oxon-sulfone	fensulfothion-sulfone	fenthion (parent)
fenthion-sulfone	fenthion-sulfoxide	fenvalerate (sum of constituent isomers in any ratio including esfenvalerate)	fipronil (parent)	fipronil-desulfinyl
fipronil-sulfone	flonicamid	fluaizifop (sum of constituent isomers, esters and conjugates, expressed as fluaizifop)	flubendiamide	flucythrinate
fludioxonil	flufenoxuron	fluopicolide	fluopyram	fluquinconazole
flusilazole	flutolanil	flutriafol	fluvalinate (tau)	fonofos
formothion	fosthiazate	furathiocarb	HCB	HCH-A (alpha)
HCH-B (beta hexachlorocyclohexane)	HCH-G (gamma hexachlorocyclohexane / lindane)	heptachlor	(hexachlorobenzene) heptachlor-epoxide (cis)	hexachlorocyclohexane)
heptenophos	hexaconazole	hexythiazox	imazalil	imidacloprid
indoxacarb (sum of indoxacarb and its R	iprodione	iprovalicarb	isocarbofos	isofenphos (ethyl)



enantiomer)				
isofenphos-methyl	isoprocarb	isoprothiolane	isoproturon	kresoxim-methyl
lenacil	linuron	lufenuron	malaoxon	malathion
mandipropamid	mecarbam	mepanipyrim	metaflumizone (sum of E and Z isomers)	metalaxyl (sum of constituent isomers including metalaxyl-M)
				methidathion
metamitron	metconazole	methacrifos	methamidophos	methoxychlor
methiocarb	methiocarb-sulfone	methiocarb-sulfoxide	methomyl	mevinphos (sum of E and Z isomers)
methoxyfenozide	metolachlor (sum of constituent isomers including S-metolachlor)	metrafenone	metribuzin	
monocrotophos	monolinuron	myclobutanil	nitrofen	novaluron
omethoate	oxadiazon	oxadixyl	oxamyl	oxyfluorfen
paclobutrazol	parathion (ethyl)	parathion-methyl	penconazole	pencycuron
pendimethalin	pentachloroaniline	permethrin (sum of isomers)	phenthoate	phorate
phorate-sulfone	phorate-sulfoxide	phosalone	phosmet	phosphamidon
phoxim	piperonyl butoxide	pirimicarb	pirimicarb (desmethyl)	pirimiphos-ethyl
pirimiphos-methyl	prochloraz (parent)	procymidone	profenofos	promecarb
prometryn	propamocarb	propargite	propiconazole	propoxur
propyzamide	proquinazid	prosulfocarb	prothiofos	pymetrozine
pyraclostrobin	pyrazophos	pyridaben	pyridalyl	pyridaphenthion
pyrimethanil	pyriproxyfen	quinalphos	quinoxifen	quintozene
spinosad (sum of spinosyn A and D)	spirodiclofen	spiromesifen	spirotetramat (sum spirotetramat and spirotetramat-enol expressed as spirotetramat)	spiroxamine
tebuconazole	tebufenozide	tebufenpyrad	tecnazene	teflubenzuron
tefluthrin	terbufos	terbufos-sulfone	terbufos-sulfoxide	terbuthylazine
tetrachlorvinphos	tetraconazole	tetradifon	tetramethrin (sum of constituent isomers)	TFNA
TFNG	thiabendazole	thiacloprid	thiamethoxam	thiodicarb
THPI	tolclofos-methyl	tolfenpyrad	tolyfluanid	triadimefon
triadimenol	triallate	triazophos	tricyclazole	trifloxystrobin
triflumuron	trifluralin	triticonazole	vinclozolin	zoxamide



Pesticide Residues – Fresh Fruits, Vegetables, Tea, Herbs & Honey

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 4**, except tests: **19252** (herb) which will contain any number of the pesticides given in **List 5**, **19262** (green tea) which will contain any number of the pesticides given in **List 6**, **19256** (lettuce) & **19260** (pineapple) which are for the stated residues, **19263** (honey) which will contain any number of the pesticides given in **List 7**, 19624 (mushroom) which additionally will contain chlomequat and **19265** (cauliflower) which will all of the pesticides given in **List 8**.

dispatch date		test details		
dd/mm/yyyy	code	matrix	analyte	approximate quantity
06/02/2018	19244 ^F	potato	pesticide residues from List 4	90 g
	19244b ^F	blank potato	BLANK (only available if ordered with test 19244)	90 g
06/02/2018	19245 ^F	sweet (bell) pepper	pesticide residues from List 4	90 g
	19245b ^F	blank sweet (bell) pepper	BLANK (only available if ordered with test 19245)	90 g
13/03/2018	19246 ^F	apple	pesticide residues from List 4	90 g
	19246b ^F	blank apple	BLANK (only available if ordered with test 19246)	90 g
13/03/2018	19247 ^F	broccoli	pesticide residues from List 4	90 g
	19247b ^F	blank broccoli	BLANK (only available if ordered with test 19247)	90 g
16/04/2018	19248 ^F	lemon	pesticide residues from List 4	90 g
	19248b ^F	blank lemon	BLANK (only available if ordered with test 19248)	90 g
14/05/2018	19249 ^F	tomato	pesticide residues from List 4	90 g
	19249b ^F	blank tomato	BLANK (only available if ordered with test 19249)	90 g

Footnotes

^F test incurs courier charges



Pesticide Residues – Fresh Fruits, Vegetables, Tea, Herbs & Honey (cont.)

dispatch date	test details			
dd/mm/yyyy	code	matrix	analyte	approximate quantity
18/06/2018	19250 ^F	cucumber	pesticide residues from List 4	90 g
	19250b ^F	blank cucumber	BLANK (only available if ordered with test 19250)	90 g
18/06/2018	19251 ^F	lettuce	pesticide residues from List 4	90 g
	19251b ^F	blank lettuce	BLANK (only available if ordered with test 19251)	90 g
23/07/2018	19252 ^F	herb	products of disinfection from List 5	90 g
	19252b ^F	blank herb	BLANK (only available if ordered with test 19252)	90 g
13/08/2018	19253 ^F	strawberry	pesticide residues from List 4	90 g
	19253b ^F	blank strawberry	BLANK (only available if ordered with test 19253)	90 g
28/08/2018	19254 ^F	mango	pesticide residues from List 4	90 g
	19254b ^F	blank mango	BLANK (only available if ordered with test 19254)	90 g
04/09/2018	19255 ^F	chilli pepper	pesticide residues from List 4	90 g
	19255b ^F	blank chilli pepper	BLANK (only available if ordered with test 19255)	90 g
18/09/2018	19256 ^F ^φ	lettuce	dithiocarbamates	90 g
	19256b ^F	blank lettuce	BLANK (only available if ordered with test 19256)	90 g
18/09/2018	19257 ^F	avocado	pesticide residues from List 4	90 g
	19257b ^F	blank avocado	BLANK (only available if ordered with test 19257)	90 g
08/10/2018	19258 ^F	blueberry	pesticide residues from List 4	90 g
	19258b ^F	blank blueberry	BLANK (only available if ordered with test 19258)	90 g

Footnotes

^F test incurs courier charges

^φ test has a shortened timescale



Pesticide Residues – Fresh Fruits, Vegetables, Tea, Herbs & Honey (cont.)

dispatch date	test details			
	code	matrix	analyte	approximate quantity
22/10/2018	19259 ^F	nectarine	pesticide residues from List 4	90 g
	19259b ^F	blank nectarine	BLANK (only available if ordered with test 19259)	90 g
13/11/2018	19260 ^F	pineapple	ethephon (single residue)	90 g
	19260b ^F	blank pineapple	BLANK (only available if ordered with test 19260)	90 g
13/11/2018	19261 ^F	celery	pesticide residues from List 4	90 g
	19261b ^F	blank celery	BLANK (only available if ordered with test 19261)	90 g
05/12/2018	19262	tea (green)	pesticide residues from List 6	50 g
	19262b	blank tea (green)	BLANK (only available if ordered with test 19262)	50 g
08/01/2019	19263 ^F	honey	pesticide residues from List 7	90 g
	19263b ^F	blank honey	BLANK (only available if ordered with test 19263)	90 g
08/01/2019	19264 ^F	mushroom	pesticide residues from List 4, plus chlormequat	90 g
	19264b ^F	blank mushroom	BLANK (only available if ordered with test 19264)	90 g
05/02/2019	19265 ^F	cauliflower	ALL pesticide residues from List 8	90 g
	19265b ^F	blank cauliflower	BLANK (only available if ordered with test 19265)	90 g
11/03/2019	19266 ^F	apple	pesticide residues from List 4	90 g
	19266b ^F	blank apple	BLANK (only available if ordered with test 19266)	90 g

Footnotes

^F test incurs courier charges



Potential Pesticide Residues – List 5

BAC 10 (Benzyldimethyldecylammonium Chloride)	BAC 12 (Benzyldimethyldodecylammonium Chloride)
BAC 14 (Benzyldimethyltetradecylammonium Chloride)	BAC 16 (Benzyldimethylhexadecylammonium Chloride)
Chlorate	DDAC (Didecylmethylammonium Chloride)
Perchlorate	

Potential Pesticide Residues – List 6

Parent compound only unless otherwise stated

2-phenylphenol (ortho-phenylphenol)	abamectin (sum of avermectin B1a and B1b only)	acetamiprid	anthraquinone	bifenthrin
buprofezin	carbaryl	carbendazim	chlorfenapyr	chlorfenvinphos (sum of E and Z isomers)
chlorothalonil	chlorpyrifos (ethyl)	cyhalothrin-lambda	cypermethrin (sum of constituent isomers)	DDD-pp (TDE)
DDE-pp	DDT-op	DDT-pp	deltamethrin	diazinon
dicofol (sum of p,p' and o,p' isomers)	dimethoate	dinotefuran	endosulfan I (alpha)	endosulfan II (beta)
endosulfan-sulfate	ethion	fenazaquin	fenitrothion	fenpropathrin
fenpropimorph	fenvalerate (sum of constituent isomers in any ratio including esfenvalerate)	fipronil-sulfone	HCB (hexachlorobenzene)	HCH-A (alpha hexachlorocyclohexane)
HCH-B (beta hexachlorocyclohexane)	HCH-G (gamma hexachlorocyclohexane / lindane)	imidacloprid	linuron	malathion
methomyl	monocrotophos	oxadixyl	phenthoate	phosalone
pirimiphos-methyl	procymidone	propargite	pyridaben	pyrimethanil
quinalphos	terbuthylazine	tolfenpyrad	triazophos	trifloxystrobin

Potential Pesticide Residues – List 7

Parent compound only unless otherwise stated

acetamiprid	amitraz
clothianidin	coumaphos
dinotefuran	fluvalinate (tau)
imidacloprid	nitenpyram
thiacloprid	thiamethoxam



Actual Pesticide Residues – List 8

Matrix *will* contain **ALL** of the pesticides listed in this table

Parent compound only unless otherwise stated

acetamiprid	aldrin	azoxystrobin	bifenthrin	chlorpyrifos (ethyl)
chlorpyrifos-methyl	cypermethrin (sum of constituent isomers)	DDE-pp	deltamethrin	dichlorvos
dieldrin	dimethoate	endosulfan I (alpha)	endosulfan II (beta)	endosulfan-sulfate
endrin	ethion	fenpropathrin	fenthion-sulfoxide	HCH-A (alpha hexachlorocyclohexane)
HCH-B (beta hexachlorocyclohexane)	HCH-G (gamma hexachlorocyclohexane / lindane)	malathion	parathion-methyl	permethrin (sum of isomers)
triazophos				



Price List in €

Round No.	Courier	Programme Name	Round Price	Extra Material Price
02340b	1	BLANK (Food Chem): 2018	104.00	104.00
02341b	1	BLANK (Food Chem): 2018	104.00	104.00
02343b	1	BLANK (Food Chem): 2018	104.00	104.00
02346b	1	BLANK (Food Chem): 2018	104.00	104.00
02347b	1	BLANK (Food Chem): 2018	104.00	104.00
02348b	1	BLANK (Food Chem): 2018	104.00	104.00
02350b	1	BLANK (Food Chem): 2018	104.00	104.00
02351b	1	BLANK (Food Chem): 2018	104.00	104.00
02353b	1	BLANK (Food Chem): 2018	104.00	104.00
02359b	1	BLANK (Food Chem): 2018	104.00	104.00
02360b	1	BLANK (Food Chem): 2018	104.00	104.00
02362b	1	BLANK (Food Chem): 2018	104.00	104.00
02363b	1	BLANK (Food Chem): 2018	104.00	104.00
05125b	0	BLANK (Food Chem): 2018	79.00	79.00
05126b	1	BLANK (Food Chem): 2018	79.00	79.00
05127b	1	BLANK (Food Chem): 2018	79.00	79.00
05128b	0	BLANK (Food Chem): 2018	79.00	79.00
05129b	1	BLANK (Food Chem): 2018	79.00	79.00
05130b	0	BLANK (Food Chem): 2018	79.00	79.00
05131b	1	BLANK (Food Chem): 2018	79.00	79.00
09114b	0	BLANK (Food Chem): 2018	79.00	79.00
09115b	0	BLANK (Food Chem): 2018	79.00	79.00
09116b	0	BLANK (Food Chem): 2018	79.00	79.00
09117b	0	BLANK (Food Chem): 2018	79.00	79.00
09118b	0	BLANK (Food Chem): 2018	79.00	79.00
09119b	0	BLANK (Food Chem): 2018	79.00	79.00
19244b	1	BLANK (Food Chem): 2018	79.00	79.00
19245b	1	BLANK (Food Chem): 2018	79.00	79.00
19246b	1	BLANK (Food Chem): 2018	79.00	79.00
19247b	1	BLANK (Food Chem): 2018	79.00	79.00
19248b	1	BLANK (Food Chem): 2018	79.00	79.00
19249b	1	BLANK (Food Chem): 2018	79.00	79.00
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03143	0	Food Chemistry: 2018	261.00	70.00



03144	0	Food Chemistry: 2018	248.00	70.00
03145	0	Food Chemistry: 2018	248.00	70.00
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04335	0	Food Chemistry: 2018	615.00	184.00
04336	0	Food Chemistry: 2018	441.00	143.00
04337	1	Food Chemistry: 2018	253.00	71.00
04338	0	Food Chemistry: 2018	253.00	71.00
04339	0	Food Chemistry: 2018	253.00	71.00
04340	0	Food Chemistry: 2018	339.00	102.00
04341	1	Food Chemistry: 2018	253.00	71.00
04342	0	Food Chemistry: 2018	615.00	184.00
04343	1	Food Chemistry: 2018	339.00	102.00
04344	0	Food Chemistry: 2018	339.00	102.00
04345	1	Food Chemistry: 2018	253.00	71.00
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04347	0	Food Chemistry: 2018	253.00	71.00
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04349	0	Food Chemistry: 2018	339.00	71.00
04350	0	Food Chemistry: 2018	253.00	71.00
04351	0	Food Chemistry: 2018	441.00	143.00
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0678	0	Food Chemistry: 2018	536.00	184.00
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1385	0	Food Chemistry: 2018	347.00	102.00
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19249	1	Food Chemistry: 2018	253.00	71.00
19250	1	Food Chemistry: 2018	253.00	71.00
19251	1	Food Chemistry: 2018	253.00	71.00
19252	1	Food Chemistry: 2018	253.00	71.00



19253	1	Food Chemistry: 2018	253.00	71.00
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19255	1	Food Chemistry: 2018	253.00	71.00
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19259	1	Food Chemistry: 2018	253.00	71.00
19260	1	Food Chemistry: 2018	339.00	102.00
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21112	1	Food Chemistry: 2018	266.00	71.00
22148	0	Food Chemistry: 2018	332.00	100.00
22149	0	Food Chemistry: 2018	538.00	171.00
22150	0	Food Chemistry: 2018	248.00	70.00
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22152	0	Food Chemistry: 2018	332.00	100.00
22153	0	Food Chemistry: 2018	603.00	180.00
22154	0	Food Chemistry: 2018	385.00	100.00
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22156	0	Food Chemistry: 2018	385.00	100.00
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25165	0	Food Chemistry: 2018	253.00	71.00



25166	1	Food Chemistry: 2018	253.00	71.00
25167	0	Food Chemistry: 2018	253.00	71.00
25168	0	Food Chemistry: 2018	253.00	71.00
2652	0	Food Chemistry: 2018	261.00	70.00
2653	0	Food Chemistry: 2018	266.00	71.00
2654	0	Food Chemistry: 2018	266.00	71.00
27213	0	Food Chemistry: 2018	261.00	70.00
27214	0	Food Chemistry: 2018	332.00	100.00
27215	0	Food Chemistry: 2018	261.00	70.00
27216	0	Food Chemistry: 2018	332.00	100.00
27217	0	Food Chemistry: 2018	261.00	70.00
27218	0	Food Chemistry: 2018	332.00	100.00
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27225	0	Food Chemistry: 2018	274.00	74.00
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27227	0	Food Chemistry: 2018	349.00	105.00
27228	0	Food Chemistry: 2018	274.00	74.00
27229	0	Food Chemistry: 2018	274.00	74.00
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27231	0	Food Chemistry: 2018	274.00	74.00
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27233	1	Food Chemistry: 2018	349.00	105.00
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2976	0	Food Chemistry: 2018	261.00	70.00
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2979	1	Food Chemistry: 2018	266.00	71.00
2980	0	Food Chemistry: 2018	500.00	171.00
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3084	0	Food Chemistry: 2018	253.00	71.00
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3086	0	Food Chemistry: 2018	253.00	71.00
3087	0	Food Chemistry: 2018	253.00	71.00



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3109	1	Food Chemistry: 2018	250.00	71.00
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01128	0	Food Chemistry: 2019	253.00	71.00
02365	1	Food Chemistry: 2019	340.00	100.00
02366	1	Food Chemistry: 2019	340.00	100.00
02367	1	Food Chemistry: 2019	340.00	100.00
02368	1	Food Chemistry: 2019	340.00	100.00
02369	1	Food Chemistry: 2019	340.00	100.00
03149	0	Food Chemistry: 2019	248.00	70.00
03150	0	Food Chemistry: 2019	261.00	70.00
04352	0	Food Chemistry: 2019	253.00	71.00
04353	1	Food Chemistry: 2019	253.00	71.00
04354	0	Food Chemistry: 2019	441.00	143.00
04355	0	Food Chemistry: 2019	253.00	71.00
04356	0	Food Chemistry: 2019	339.00	102.00
04357	1	Food Chemistry: 2019	253.00	71.00
05132	0	Food Chemistry: 2019	266.00	71.00
05133	1	Food Chemistry: 2019	266.00	71.00
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07327	0	Food Chemistry: 2019	253.00	71.00
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07331	0	Food Chemistry: 2019	253.00	71.00
07332	1	Food Chemistry: 2019	253.00	71.00
0871	0	Food Chemistry: 2019	253.00	71.00
09120	0	Food Chemistry: 2019	253.00	71.00
09121	0	Food Chemistry: 2019	253.00	71.00
10162	0	Food Chemistry: 2019	253.00	71.00
10163	0	Food Chemistry: 2019	481.00	143.00
1291	0	Food Chemistry: 2019	260.00	74.00
1386	0	Food Chemistry: 2019	347.00	102.00
14196	1	Food Chemistry: 2019	253.00	71.00
14197	0	Food Chemistry: 2019	253.00	71.00
14198	1	Food Chemistry: 2019	253.00	71.00
15134	0	Food Chemistry: 2019	248.00	70.00
15135	0	Food Chemistry: 2019	248.00	70.00
1669	1	Food Chemistry: 2019	253.00	71.00
17189	0	Food Chemistry: 2019	253.00	71.00
17190	0	Food Chemistry: 2019	253.00	71.00
17191	1	Food Chemistry: 2019	253.00	71.00
1895	0	Food Chemistry: 2019	266.00	71.00
19263	1	Food Chemistry: 2019	253.00	71.00
19264	1	Food Chemistry: 2019	253.00	71.00
19265	1	Food Chemistry: 2019	253.00	71.00
19266	1	Food Chemistry: 2019	253.00	71.00



20157	0	Food Chemistry: 2019	248.00	70.00
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21113	0	Food Chemistry: 2019	266.00	71.00
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22158	0	Food Chemistry: 2019	538.00	171.00
2481	0	Food Chemistry: 2019	253.00	71.00
25169	0	Food Chemistry: 2019	253.00	71.00
25170	1	Food Chemistry: 2019	253.00	71.00
25171	0	Food Chemistry: 2019	253.00	71.00
25172	0	Food Chemistry: 2019	253.00	71.00
2655	0	Food Chemistry: 2019	266.00	71.00
27237	0	Food Chemistry: 2019	274.00	74.00
27238	0	Food Chemistry: 2019	349.00	105.00
27239	0	Food Chemistry: 2019	274.00	74.00
27240	0	Food Chemistry: 2019	349.00	105.00
27241	0	Food Chemistry: 2019	274.00	74.00
27242	0	Food Chemistry: 2019	349.00	105.00
27243	0	Food Chemistry: 2019	274.00	74.00
2842	1	Food Chemistry: 2019	266.00	71.00
2981	0	Food Chemistry: 2019	266.00	71.00
3088	1	Food Chemistry: 2019	253.00	71.00
3089	0	Food Chemistry: 2019	253.00	71.00
3090	0	Food Chemistry: 2019	253.00	71.00

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 / ab 01.04.18 72
Non-EU Courier Charge	100 / ab 01.04.18 77
(All prices additional German tax.)	



Technical Information

Protocols

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

Other technical documents

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

ISO Accreditation

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



0009

- [UKAS Accreditation Certificate](#)
- [UKAS Schedule of Accreditation](#)

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 certification 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.

