

## Nutritional Analysis

The nutritional analysis PTs are primarily aimed at nutritional labelling compliance, where laboratories in the supply chain are verifying the nutritional content of food products. The matrices comprise ingredients (such as flour) and finished products (such as ready to eat meals). Canned meat and fish test materials are produced as bespoke test samples for Fapas®.

### Nutritional Components

The nutritional components PTs include proximates and general categories corresponding to the AOAC nutritional triangle. Sodium and chloride are required as separate determinands, not as salt (unless otherwise specified). Total dietary fibre can be determined by any AOAC method. Specific instructions will be provided where there is known method dependency (including hydrolysis steps for total fat, temperature for ash and moisture). The determinand Nitrogen is required instead of protein. There are other proficiency tests in the Programme for nutritional components, see under the section headed Oils and Fats.

#### Please note:

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. Not all sugars may be present.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
17/01/2019	FCNC15-MRP12	01127	canned meat	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	181
27/03/2019	FCNC15-MRP13	01128	canned meat meal	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	181
17/05/2019	FCNC11-MRP12	01129	canned meat	moisture, ash, total fat, nitrogen, hydroxyproline	150 g	185
12/07/2019	FCNC15-MRP12	01130	canned meat	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	185
22/08/2019	FCNC25-MRP13	01131	canned meat meal	total fat, saturated fatty acids, total sugars, protein, salt	150 g	185
11/10/2019	FCNC11-MRP12	01132	canned meat	moisture, ash, total fat, nitrogen, hydroxyproline	150 g	185
29/11/2019	FCNC16-MRP13	01133	canned meat meal	moisture, ash, total fat, nitrogen, sodium, chloride, total sugars	150 g	185
16/01/2020	FCNC15-MRP12	01134	canned meat	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	185
19/03/2020	FCNC15-MRP13	01135	canned meat meal	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	185

**\*\* Dispatch Date and Item Code will be changed every year. Please use Product Code as your reference number.\*\***



**Nutritional Components (continued)**

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
15/02/2019	FCNC4-CCP49	2481	wheat flour	moisture at 130°C, ash, nitrogen, total dietary fibre by AOAC	150 g	181
12/04/2019	FCNC5-CCP40	2482	porridge oats	moisture at 130°C, ash, total fat, nitrogen, total dietary fibre by AOAC	150 g	185
05/07/2019	FCNC4-CCP15	2483	cereal	moisture at 130 deg c, ash, nitrogen, total dietary fibre by AOAC	150 g	185
12/09/2019	FCNC6-PRO9	2484	breadcrumbs	moisture, ash, nitrogen, total dietary fibre by AOAC, starch, sodium	150 g	185
07/11/2019	FCNC13-PRO2	2485	biscuit (cookie)	moisture, ash, total fat, nitrogen, total dietary fibre by AOAC	150 g	185
14/02/2020	FCNC4-CCP49	2486	wheat flour	moisture at 130°C, ash, nitrogen, total dietary fibre by AOAC	150 g	185

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**Nutritional Components (continued)**

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
18/01/2019	FCNC15-PRO12	25169	cheese & pasta meal	moisture, ash, total fat, nitrogen, sodium, chloride	100 g	181
26/02/2019	FCNC24-DRY6	25170	butter	moisture, total fat, non-fat solids, pH, chloride	200 g	181
15/03/2019	FCQT1-SEA7	25171	canned fish	total volatile basic nitrogen (TVB-N)	150 g	181
21/03/2019	FCNC15-PRO39	25172	corn/maize based snack food	moisture, ash, total fat, nitrogen, sodium, chloride	50 g	181
11/04/2019	FCNC15-SEA15	25173	fish paste	moisture, ash, total fat, nitrogen, sodium, chloride	150 g	185
15/05/2019	FCNC14-DRY9	25174	condensed milk	moisture, ash, total fat, nitrogen, total sugars	150 ml	185
27/06/2019	FCNC28-DRY15	25175	milkshake powder	fructose, glucose, lactose, maltose, sucrose	50 g	185
23/07/2019	FCNC23-CON2	25176	chocolate	moisture, total fat, nitrogen, butyric acid, lactose, sucrose	150 g	185
06/09/2019	FCQT1-SEA7	25177	canned fish	total volatile basic nitrogen (TVB-N)	150 g	185
01/11/2019	FCNC17-DRY14	25178	milk powder	moisture, ash, total fat, nitrogen, titratable acidity, lactose	50 g	185
17/01/2020	FCNC15-PRO12	25179	cheese & pasta meal	moisture, ash, total fat, nitrogen, sodium, chloride	100 g	185
25/02/2020	FCNC24-DRY6	25180	butter	moisture, total fat, non-fat solids, pH, chloride	200 g	185
12/03/2020	FCQT1-SEA7	25181	canned fish	total volatile basic nitrogen (TVB-N)	150 g	185
20/03/2020	FCNC15-PRO39	25182	corn/maize based snack food	moisture, ash, total fat, nitrogen, sodium, chloride	50 g	185

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## Nutritional Elements

The nutritionally important elements are the required determinands, usually at production-fortified levels. These are the levels that typically may be expected in finished products. Our heavy metals PTs are intended for trace level contamination from toxic metals. There are other proficiency tests in the Programme for metallic elements, see under the section headed Metallic Contaminants.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
08/03/2019	FCNE1-INF10	1895	infant formula	calcium, copper, iodine, iron, magnesium, manganese, phosphorus, potassium, selenium, sodium, zinc	50 g	190
10/07/2019	FCNE4-CCP13	1896	breakfast cereal	calcium, iron, magnesium, phosphorus, potassium, sodium, zinc	50 g	185
21/11/2019	FCNE8-DRY14	1897	milk powder	calcium, copper, iodine, iron, manganese, magnesium, molybdenum, phosphorus, potassium, selenium, sodium, zinc	50 g	194
19/03/2020	FCNE1-INF10	1898	infant formula	calcium, copper, iodine, iron, magnesium, manganese, phosphorus, potassium, selenium, sodium, zinc	50 g	194

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## Vitamins

The levels of vitamins in these test materials are either at naturally incurred or production-fortified levels. Depending on the source of the material, some vitamins may be encapsulated. The instruction letter will specify the reporting form of each vitamin, usually to molecular weight level of the vitamin species. Where there is a known method dependency, the instruction letter will inform the critical parameter to be followed.

### Please note:

Some tests, e.g. those for vitamin C, have a short timescale for the submission of results. The stability of such test materials will be assessed as part of the sample preparation procedures.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
13/02/2019	FCNV9-CCP13	21113	breakfast cereal	vitamin B1, total vitamin B2, vitamin B6, vitamin B12, total niacin, folic acid	100 g	190
03/04/2019	FCNV3-INF15	21114	powdered baby food	vitamin A, vitamin B1, vitamin B2 (as riboflavin), vitamin B12, vitamin C, vitamin E	100 g	194
30/05/2019	FCNV5-INF10	21115	infant formula	vitamin A, vitamin B12, vitamin C, vitamin D3, vitamin E, vitamin K1	50 g	194
24/06/2019	FCNV2-FRU47	21116	fruit purée	vitamin C	100 g	194
03/09/2019	FCNV7-SUP4	21117	liquid vitamin supplement	vitamin B1, total vitamin B2, vitamin B6	40 ml	194
05/02/2020	FCNV9-CCP13	21118	breakfast cereal	vitamin B1, total vitamin B2, vitamin B6, vitamin B12, total niacin, folic acid	100 g	194

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