



Scheme Description

Meat and Fish Analysis (QMAS) Proficiency Testing Scheme

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29821

RECORD OF ISSUE STATUS AND MODIFICATIONS

Issue	Issue Date	Details	Authorised by
28	Jan 2023	Sample 748 is now accredited	A Collins
29	June 2023	Sample 762 added.	S. Xystouris
30	Sept 2023	Microbiology samples range updated to 'cfu/g'. Units updated to 'reporting units'. New analyte added to 743 'Detection of <i>Campylobacter</i> species' per cfu/10g. New samples 763 (Salmonella in 375g meat powder) and 764 (Listeria in 125g meat powder) added. Non-toxicogenic added to E.coli O157 samples/analyte names. Added 'Identification of Salmonella' to sample 757 Removed Vet drug samples Added a new sample for PFAS (765) Added methyl mercury and changed the sample name of sample 742 Sample 749 Changed from 2 x set of 2 samples to 1 x set of 2 samples Sample 754 Changed from 50g fresh sample to 10g freeze-dried sample	M.Bell T.Noblett S Xystouris L. Fielding
31	July 2024	763 and 764 'supplied as' information changed to ready to test samples. Remove sample 762. Ranges included for fat in 734. New sample PT-MT-766 for offal added.	M. Bell W. Gaunt
32	Oct 2024	763 amended range to 0 to 100 cfu/375g. 764 amended range to 0 to 100 cfu/125g. 764 formats changed from RTT to vial and matrix.	M.Bell
33	July 2025	More information provided for 749 and 752, including addition of Appendix A Updated SDPA for 742 Lead & Mercury New sample 767 for porcine DNA New analytes added to 754 and 755 Change of format for PFAS 765. Added Appendix B for PFAS and referenced in sample 765. Updated format for sample 763 and 764.	R. Connolly S. Xystouris M.Bell
34	January 2026	Various analytes in sample 765 now accredited under flexible scope	A Collins
35	May 2026	SDPA for TVN in 748 updated SDPA for fat in 734 (oily fish) updated New UKAS logo added	R. Connolly A Collins
36	June 2026	New samples added for Listeria detection in fish and Enterococcus enumeration in meat	A. cheetham
37	July 2026	New samples MT770 (Salmonella detection in Chicken) and MT771 (Salmonella detection in Beef) added MT744 matrix updated to dried beef Sample 768 changed to 2 x vial plus matrix Sample 765 clarified presentation	M.Bell S.Xystouris R. Connolly

Notes: Where this document has been translated, the English version shall remain the definitive version

SCHEME INFORMATION

Scheme Aims and Organisation

The primary aim of the Meat and Fish Analysis Proficiency Testing Scheme (QMAS) is to enable laboratories performing the analysis of meat and fish products to monitor their performance and compare it with that of their peers. QMAS also aims to provide information to participants on technical issues and methodologies relating to the chemical and microbiological examination of meat and fish.

The QMAS scheme year operates from January to December. Further information about QMAS, including test material availability, round despatch dates and reporting deadlines, are available on the current QMAS application form

Test Materials

Details of test materials available in QMAS are given in the 'Samples Available' section. The test parameters are continually reviewed to ensure they meet the needs of current laboratory testing and regulatory requirements.

Test material batches are tested for homogeneity for at least one test parameter where deemed appropriate. Details of homogeneity tests performed and results are given in the QGS Scheme Reports.

Some aspects of the scheme, such as test material production, homogeneity testing and stability assessment, can from time to time be subcontracted. When subcontracting occurs, it is placed with a competent subcontractor and LGC is responsible for this work. The planning of the scheme, the evaluation of performance and the authorisation of the final report will never be subcontracted.

Statistical Analysis

Information on the statistics used in QMAS can be found in the General Protocol and in the Scheme Report. Methods for determining assigned values and the values for SDPA used for individual samples are given in the 'Samples Available' section.

Methods

Methods are listed PORTAL. Please select the most appropriate method from the list. If none of the methods are appropriate, then please report your method as 'Other' and record a brief description in the Comments Section in PORTAL.

Results and Reports

QMAS results are returned through our electronic reporting software, PORTAL, full instructions for which are provided by email.

QMAS reports will be available on the website within 10 working days of round closure. Participants will be emailed a link to the report when it is available.

DESCRIPTION OF ABBREVIATIONS USED

Assigned Value (AV)

The assigned value may be derived in the following ways:

- From the robust mean (median) of participant results (RMean). This is the median of participant results after the removal of test results that are inappropriate for statistical evaluation, e.g. miscalculations, transpositions and other gross errors. Generally, the assigned value will be set using results from all methods, unless the measurement is considered method-dependant, in which case the assigned value will be set by method and indicated in the report tables. For some analytes, where there is a recognised reference method for that type of measurement, this may be used as the assigned value for a particular analyte i.e. it would be applied to results obtained by any method.

Traceability: Assigned values which are derived from the participant results, or a sub-set of the results are not traceable to an international measurement standard. The uncertainty of assigned values derived in this way is estimated from the participant results, according to ISO 13528.

- From a formulation value (Form). This denotes the use of an assigned value derived from sample preparation details, where known and exact quantities of analyte have been used to prepare the sample.

Traceability: Assigned values calculated from the formulation of the test sample are traceable, via an unbroken metrological traceability chain, to an international measurement standard. The measurement uncertainty of the assigned value is calculated using the contributions from each calibration in the traceability chain.

- From a qualitative formulation (Qual Form). This applies to qualitative tests where the assigned value is simply based on the presence/absence of the analyte in the test material.

Traceability: Assigned values calculated from the qualitative formulation of the test sample are traceable to a certified reference standard or a microbiological reference strain.

- From expert labs (Expert). The assigned value for the analyte is provided by an 'expert' laboratory.

Traceability: Assigned values provided by an 'expert' laboratory may be traceable to an international measurement standard, according to the laboratory and the method used. The uncertainty of measurement for an assigned value produced in this way will be provided by the laboratory undertaking the analysis. Details of traceability and the associated uncertainty will be provided in the report for the scheme/round.

Range

This indicates the concentration range at which the analyte may be present in the test material.

SDPA

The SDPA represents the 'standard deviation for proficiency assessment' which is used to assess participant performance for the measurement of each analyte. This may be a fixed value (as stated), a percentage (%) of the assigned value or based on the robust standard deviation of the participant measurement results, either across all methods or by method depending on whether the measurement made is method dependent (see assigned value).

Units

This indicates the units used for the assessment of data and in which participants should report their results. For some analytes in some schemes participants may have a choice of which units to report their results, however, the units stipulated in this scheme description are the default units to which any results reported using allowable alternative results will be converted to.

DP

This indicates the number of decimal places to which participants should report their measurement results.

SAMPLES AVAILABLE

CHEMISTRY

Sample PT-MT-718*

Nitrate and nitrite analysis of fish and fish products

Supplied as:

30g of freeze-dried fish/fish product

Analyte	Method	Range	AV	SDPA	Units	DP
Nitrate	All	All	Median	0 to 60ppm: 15ppm >60ppm: 25% AV	mg/kg (as NaNO ₃)	1
Nitrite	All	All	Median	0-20ppm: 5ppm >20ppm 25% AV	mg/kg (as NaNO ₂)	1

Sample PT-MT-728*

Nutritional analysis of fish product (e.g. breaded fish product)

Supplied as:

150g of fish

Analyte	Method	Range	AV	SDPA	Units	DP
Energy	All	All	Median	Robust SD	kcal or KJ/100g	0
Fat	All	All	Median	Robust SD	%	2
Saturates	All	All	Median	Robust SD	%	2
Carbohydrate	All	All	Median	Robust SD	%	2
Dietary fibre	All	All	Median	Robust SD	%	2
Protein	All	All	Median	Robust SD	%	2
Salt	All	All	Median	Robust SD	%NaCl	2
Ash	All	All	Median	Robust SD	%	2
Moisture	All	All	Median	Robust SD	%	2
Sugar	All	All	Median	Robust SD	%	2

Sample PT-MT-729*

Sulfur dioxide in meat and meat products

Supplied as:

50g meat/meat products

Analyte	Method	Range	AV	SDPA	Units	DP
Sulfur dioxide	HPLC, Spectrophotometry, Distillation (e.g. Monier Williams), IC	All	Median	Robust SD	mg/kg	0

*currently not included in LGC's UKAS Scope of Accreditation

Sample PT-MT-730

Chemical analysis of meat and meat products

Supplied as:

150g of dried/cured meat

Analyte	Method	Range	AV	SDPA	Units	DP
Energy	All	All	Median	4% of AV	Kcal or KJ/100g	0
Total fat	All	All	Median	4% of AV (min 0.1)	%	2
Saturates**	All	All	Median	Robust SD	%	2

Analyte	Method	Range	AV	SDPA	Units	DP
Cholesterol**	All	All	Median	Robust SD	%	2
Carbohydrate	All	All	Median	Robust SD	%	2
Total sugars	All	All	Median	0.50	%	2
Dietary fibre	All	All	Median	0.50	%	2
Protein	All	All	Median	3% of AV (min 0.20)	%	2
Salt	All	All	Median	6% of AV (min 0.15)	%NaCl	2
Ash	All	All	Median	2% of AV (min 0.05)	%	2
Moisture	All	All	Median	0.40	%	2
Sodium	All	All	Median	0.10	%	2
Phosphate	All	All	Median	0.10	%PO ₄ or %P	2
pH	All	All	Median	0.10	pH units	2

Sample PT-MT-731

Supplied as:

Chemical analysis of meat and meat products

150g of precooked, raw or processed meat

Analyte	Method	Range	AV	SDPA	Units	DP
Energy	All	All	Median	3% of AV	Kcal or KJ/100g	0
Total fat	All	All	Median	4% of AV (min 0.1)	%	2
Saturates**	All	All	Median	Robust SD	%	2
Cholesterol**	All	All	Median	Robust SD	%	2
Carbohydrate	All	All	Median	Robust SD	%	2
Total sugars	All	All	Median	0.50	%	2
Dietary fibre	All	All	Median	0.50	%	2
Protein	All	All	Median	3% of AV (min 0.20)	%	2
Salt	All	All	Median	6% of AV (min 0.15)	%NaCl	2
Ash	All	All	Median	2% of AV (min 0.05)	%	2
Moisture	All	All	Median	0.40	%	2
Sodium	All	All	Median	0.10	%	2
Phosphate	All	All	Median	0.10	%PO ₄	2
pH	All	All	Median	0.10	pH units	2
Calcium	All	All	Median	Robust SD	mg/100g	2
Potassium	All	All	Median	Robust SD	mg/100g	2
Iron	All	All	Median	Robust SD	mg/100g	2
Magnesium	All	All	Median	Robust SD	mg/100g	2

**All results must to be reported as the concentration determined in test material provided.

Sample PT-MT-732

Supplied as:

Nitrate and nitrite analysis of meat and meat products

30g of freeze dried meat

Analyte	Method	Range	AV	SDPA	Units	DP
Nitrate	All	20–500 mg/kg	Median	0 to 60ppm: 15ppm >60ppm: 25% AV	mg/kg (as NaNO ₃)	1
Nitrite	All	1-100 mg/kg	Median	0-20ppm: 5ppm >20ppm 25% AV	mg/kg (as NaNO ₂)	1

Sample PT-MT-733

Supplied as:

Chemical analysis of meat and meat products

150g of meat

Analyte	Method	Range	AV	SDPA	Units	DP
Hydroxyproline	All	All	Median	0.05	%	2
Starch	All	All	Median	Robust SD	%	2
Total fat	All	All	Median	4% of AV (min 0.15)	g/100g*	2
Saturates**	All	All	Median	20% of AV	g/100g*	2
Mono-unsaturates**	All	All	Median	20% of AV	g/100g*	2
Poly-unsaturates**	All	All	Median	20% of AV	g/100g*	2
Total trans fatty acids**	All	All	Median	Robust SD	g/100g*	2

**All results must to be reported as the concentration determined in test material provided.

Sample PT-MT-734

Supplied as:

Chemical analysis of fish (fresh or processed)

150g of fish

Analyte	Method	Range	AV	SDPA	Units	DP
Fat	All	White fish: 0.01 to 2% Oily fish: 5 to 25%	Median	0.25 0.50	%	2
Protein	All	All	Median	3% of AV (min 0.20)	%	2
Salt	All	All	Median	0.15	%	2
Ash	All	All	Median	0.10	%	2
Moisture	All	All	Median	0.40	%	2
pH	All	All	Median	0.10	pH units	2

Sample PT-MT-741

Supplied as:

Elements in seafood (other than fish)

50g of seafood

Analyte	Method	Range	AV	SDPA	Units	DP
Total Arsenic	All	All	Median	10% of AV	mg/kg	2
Cadmium	All	All	Median	10% of AV	mg/kg	2
Mercury	All	All	Median	10% of AV	mg/kg	2
Lead	All	All	Median	10% of AV	mg/kg	2
Phosphorus	All	All	Median	10% of AV	mg/kg (as PO ₄) or mg/kg (as P)	2
Zinc	All	All	Median	10% of AV	mg/kg	2

Sample PT-MT-742

Supplied as:

Elements in fish including methyl mercury (fresh or processed)

50g of fish

Analyte	Method	Range	AV	SDPA	Units	DP
Total Arsenic	All	All	Median	10% of AV	mg/kg	2
Cadmium	All	All	Median	10% of AV	mg/kg	2
Mercury	All	All	Median	10% of AV (min 0.03)	mg/kg	2
Methyl mercury*	All	All	Median	10% of AV	mg/kg	2
Lead	All	All	Median	10% of AV) min 0.03)	mg/kg	2
Phosphorus	All	All	Median	10% of AV	mg/kg (as PO ₄) or mg/kg (as P)	2
Zinc	All	All	Median	10% of AV	mg/kg	2

Sample PT-MT-747*

Supplied as:

Elements in meat

50g of processed meat

Analyte	Method	Range	AV	SDPA	Units	DP
Total Arsenic	All	All	Median	10% AV	mg/kg	2
Cadmium	All	All	Median	10% AV	mg/kg	2
Mercury	All	All	Median	10% AV	mg/kg	2
Lead	All	All	Median	10% AV	mg/kg	2
Zinc	All	All	Median	Robust SD	mg/kg	2

Sample PT-MT-748

Supplied as:

Quality parameters in fresh fish

150g of fish

Analyte	Method	Range	AV	SDPA	Units	DP
Histamine	All	All	Median	25% AV	mg/kg	2
Total volatile nitrogen (TVN)	All	All	Median	25% AV	mg/100g	2
Trimethylamine (TMA)	All	All	Median	Robust SD	mg/100g	2

Sample PT-MT-749*

Supplied as:

Meat authenticity

1 x set of 2 samples (2g each) - various concentrations

Base matrix is specified in application form. Base matrix meat is not reportable (presence/absence or quantification).

Analyte	Method	Range	AV	SDPA	Units	DP
Presence/Absence	PCR, ELISA, NGS	0-100%	Formulation	N/A	-	-
Quantification (% to 2 decimal places)	PCR, ELISA, NGS	0-100%	Formulation	Robust SD	%	2

*Currently not included in LGC's UKAS Scope of Accreditation.

Sample PT-MT-752*

Supplied as:

Fish identification

4 x 20g fish (fresh, cooked, or processed product)

Analyte	Method	Range	AV	SDPA	Units	DP
Fish species identification For possible species, see Appendix A	PCR, ELISA, NGS	-	Formulation	N/A	-	-

Sample PT-MT-754*

Supplied as:

Phenicol group antibiotics in seafood

10g freeze dried prawns

Analyte	Method	Range	AV	SDPA	Units	DP
Chloramphenicol	All	All	Median	Robust SD	µg/kg	2
Thiamphenicol	All	All	Median	Robust SD	µg/kg	2
Florfenicol (sum of florfenicol and its metabolites measured as florfenicol-amine)	All	All	Median	Robust SD	µg/kg	2

Sample PT-MT-755*

Supplied as:

β-agonists in meat

100g of beef

Analyte	Method	Range	AV	SDPA	Units	DP
Ractopamine	All	All	Median	Robust SD	µg/kg	2
Salbutamol	All	All	Median	Robust SD	µg/kg	2
Clenbuterol	All	All	Median	Robust SD	µg/kg	2

Sample PT-MT-765**

Supplied as:

PFAS in fish or seafood (natural and artificially spiked)

30g of blended seafood

A list of 28 potential PFAS is included in Appendix B

Analyte	Method	Range	AV	SDPA	Units	DP
At least 10 PFAS from Appendix B, will be present every time.	LC-MS/MS, Other (please specify)	All	Median	Robust SD	µg/kg	2
Sum of 4 PFAS (PFOS, PFOA, PFNA, PFHxS)	LC-MS/MS, Other (please specify)	All	Median	Robust SD	µg/kg	2
Sum of all PFAS	LC-MS/MS, Other (please specify)	All	Median	Robust SD	µg/kg	2

**Please see appendix B for accreditation status

Sample PT-MT-766*

Supplied as:

Elements in offal

50g of offal

Analyte	Method	Range	AV	SDPA	Units	DP
Total Arsenic	All	All	Median	10% AV	mg/kg	2
Cadmium	All	All	Median	10% AV	mg/kg	2
Mercury	All	All	Median	10% AV	mg/kg	2
Lead	All	All	Median	10% AV	mg/kg	2

*Currently not included in LGC's UKAS Scope of Accreditation

Sample PT-MT-767*(A&B) Porcine DNA in meat (Halal)

Supplied as: 2 x 2g samples of meat with porcine contamination

Analyte	Method	Range	AV	SDPA	Units	DP
Presence/Absence of porcine DNA	PCR, ELISA, NGS	0-100%	Formulation	N/A	-	-

*Currently not included in LGC's UKAS Scope of Accreditation.

MICROBIOLOGY
Sample PT-MT-725 (A&B) Detection of Salmonella Typhimurium and/or Enteritidis in Chicken and Chicken based products

Supplied as: 2 x 25g of Dried Chicken

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> Typhimurium	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Detection of <i>Salmonella</i> Enteritidis	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-726
Enumeration of Campylobacter in meat and meat-based products

Supplied as: 1 x 10ml vial plus 10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of <i>Campylobacter</i> species	All	0 to 100,000	RMean	log ₁₀ 0.50	cfu/g	N/A

Sample PT-MT-727
Carcass rinsate

Supplied as: 10ml vial

Analyte	Method	Range cfu/ml	AV	SDPA	Reporting units	DP
Detection of <i>E. coli</i> O157 (Non-toxigenic strain)	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 400ml	N/A
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 400ml	N/A

Sample PT-MT-735
Indicator organisms in meat and meat-based products

Supplied as: 10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Total aerobic mesophilic count	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of Coliforms	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-736

Supplied as:

Detection of Salmonella in meat and meat-based products

25g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-737

Supplied as:

Detection of Listeria in meat and meat-based products

25g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Listeria</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Detection of <i>Listeria monocytogenes</i>						
Identification of <i>Listeria</i> species	All	0 to 1,000	Formulation	N/A	N/A	N/A

Sample PT-MT-738

Supplied as:

Clostridium and staphylococci in meat and meat-based products

10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Total anaerobic mesophilic count	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Clostridium perfringens</i>	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of sulphite-reducing bacteria	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase positive staphylococci	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-739

Supplied as:

Indicator organisms in fish and fish-based products

1 x 10ml vial plus 10g of lyophilised fish or shellfish material

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Total aerobic mesophilic count	All	0 to 1,000	RMe an	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	All	0 to 1,000	RMe an	log ₁₀ 0.35	cfu/g	0

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of Coliforms	All	0 to 1,000	RMe an	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	All	0 to 1,000	RMe an	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase positive staphylococci	All	0 to 1,000	RMe an	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-740

Supplied as:

Detection of Salmonella in fish and shellfish products

1 x 10ml vial plus 25g of lyophilised fish or shellfish material

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-743

Supplied as:

Detection of Campylobacter in meat and meat-based products

1 x 10ml vial plus 25g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Campylobacter</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Detection of <i>Campylobacter</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 10g	N/A

Sample PT-MT-744

Supplied as:

Detection of E.coli O157 (Non-toxicogenic strain) in Dried Beef

1 x 10ml vial plus 25g of Dried Beef

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>E.coli</i> O157	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-745

Supplied as:

Detection of Vibrio in fish and shellfish products

1 x 10ml vial plus 25g of lyophilised fish or shellfish material

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Vibrio</i> species Detection of <i>Vibrio parahaemolyticus</i>	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-746

Supplied as:

Spoilage organisms in meat and meat-based products

10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of <i>Pseudomonas</i> species	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of lactic acid bacteria	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of yeast	ALL	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of mould	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of yeast and mould	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-756 (A&B) Quantitative Package

Supplied as:

2 x 10ml vial plus minimum 20g meat powder matrix

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Total aerobic mesophilic count	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of total coliforms	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>E. coli</i>	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>B. cereus</i>	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase positive staphylococci	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Detection of coagulase positive staphylococci	All	0 to 100,000	Qual Form	N/A	Detected/Not detected 10g	N/A
Enumeration of yeast	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of mould	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of yeast and mould	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-757 (A&B) Qualitative Package

Supplied as: 2 x 10ml vial plus minimum 200g meat powder matrix

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>E. coli</i> O157 (Non-toxicogenic strain)	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Detection of <i>Listeria</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Detection of <i>Listeria monocytogenes</i>	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Identification of <i>Listeria</i> species	All	0 to 1,000	Formulation	N/A	N/A	N/A
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Identification of <i>Salmonella</i> species	All	0 to 1,000	Formulation	N/A	N/A	N/A

Sample PT-MT-758 Psychrotrophs

Supplied as: 10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of aerobic psychrotrophs	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-759 Enumeration of *Listeria* species

Supplied as: 10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of <i>Listeria</i> species	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>L.monocytogenes</i>	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	0

Sample PT-MT-763 Detection of *Salmonella* in 325g or 375g meat powder

Supplied as: 1 x 10ml vial plus minimum 375g meat powder matrix

Analyte	Method	Range cfu/375g or 325g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	All	0 to 100	Qual Form	N/A	Detected/Not detected 375g	0
Detection of <i>Salmonella</i> species	All	0 to 100	Qual Form	N/A	Detected/Not detected 325g	0

Sample PT-MT-764

Supplied as:

Detection of *Listeria* in meat powder

1 x 10ml vial plus minimum 125g meat powder matrix

Analyte	Method	Range cfu/125g	AV	SDPA	Reporting units	DP
Detection of <i>Listeria monocytogenes</i> Detection of <i>Listeria</i> species	All	0 to 100	Qual Form	N/A	Detected/Not detected 125g	0

Sample PT-MT-768* (A&B) Detection of *Listeria* in fish and shellfish products

Supplied as:

2 x 10ml vial (A&B) plus minimum 50g of lyophilised fish or shellfish material

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Listeria</i> species Detection of <i>Listeria monocytogenes</i>	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A
Identification of <i>Listeria</i> species	All	0 to 1,000	Formulation	N/A	N/A	N/A

Sample PT-MT-769*

Supplied as:

Enumeration of *Enterococcus* species in Meat

10g of lyophilised meat

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Enumeration of <i>Enterococcus</i> species	All	0 to 100,000	RMean	log ₁₀ 0.35	cfu/g	N/A

Sample PT-MT-770*

Supplied as:

Detection of *Salmonella* in 25g Chicken

1 x 10ml vial plus minimum 25g of lyophilised chicken

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

Sample PT-MT-771*

Supplied as:

Detection of *Salmonella* in 25g Beef

1 x 10ml vial plus minimum 25g of Dried Beef

Analyte	Method	Range cfu/g	AV	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	All	0 to 1,000	Qual Form	N/A	Detected/Not detected 25g	N/A

*Currently not included in LGC's UKAS Scope of Accreditation.

Appendix A

List of possible species for sample 752

Atlantic bluefin tuna (<i>Thunnus thynnus</i>)	Coley (<i>Pollachius virens</i>)	Pacific cod (<i>Gadus macrocephalus</i>)	Rainbow trout (<i>Oncorhynchus mykiss</i>)
Atlantic cod (<i>Gadus morhua</i>)	Common sole (<i>Solea solea</i>) (also known as Dover sole or Black sole)	Pacific halibut (<i>Hippoglossus stenolepis</i>)	Skipjack tuna (<i>Katsuwonus pelamis</i>)
Atlantic halibut (<i>Hippoglossus hippoglossus</i>)	European seabass (<i>Dicentrarchus labrax</i>)	Pangasius (<i>Pangasianodon hypophthalmus</i>)	Swordfish (<i>Xiphias gladius</i>)
Atlantic mackerel (<i>Scomber scombrus</i>)	Haddock (<i>Melanogrammus aeglefinus</i>)	Pangasius (<i>Pangasius bocourti</i>)	Whiting (<i>Merlangius merlangus</i>)
Atlantic salmon (<i>Salmo salar</i>)	Japanese seabass (<i>Lateolabrax japonicus</i>)	Pink salmon (<i>Oncorhynchus gorbuscha</i>)	Yellowfin tuna (<i>Thunnus albacares</i>)
Blackfin seabass (<i>Lateolabrax latius</i>)	Nile Tilapia (<i>Oreochromis niloticus</i>)	Plaice (<i>Pleuronectes platessa</i>)	
Blue tilapia (<i>Oreochromis aureus</i>)	Pacific bluefin tuna (<i>Thunnus orientalis</i>)	Pollock (<i>Pollachius pollachius</i>)	

Appendix B

List of possible PFAS

PFBA (375-22-4)*	PFHxS (355-46-4)	PFHpS (375-92-8)*	GenX (13252-13-6)*
PFPeA (2706-90-3)*	PFDA (335-76-2)*	PFNS (98789-57-2)*	ADONA (919005-14-4)*
PFHxA (307-24-4)*	PFUnA; PFUdA (2058-94-8)*	PFDS (335-77-3)*	Capstone A (80475-32-7)*
PFHpA (375-85-9)*	PFDaA (307-55-1)*	PFUnDS (749786-16-1)*	Capstone B (34455-29-3)*
PFOS (1763-23-1)	PFTTrDA; PFTTriA (72629-94-8)*	PFDaDS (85187-17-3)*	9Cl PF3ONS (756426-58-1)*
PFOA (335-67-1)	PFBS (375-73-5)*	PFTTrDS (791563-89-8)*	11Cl-PF3OUdS (83329-89-9)*
PFNA (375-95-1)	PFPeS (2706-91-4)*	FOSA (754-91-6)*	F53B (73606-19-6)*

*These analytes are not currently within our scope of accreditation.