



Scheme Description

Food Microbiology (QMS) Proficiency Testing Scheme

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RECORD OF ISSUE STATUS AND MODIFICATIONS

Issue	Issue Date	Details	Authorised by
24	Sept 2022	Added A and B to sample 46EG to show 2 different samples within the package. Changed the format of 'yeast and/or mould' to state each analyte separately for any relevant analytes. Added combined osmophilic yeast and osmophilic mould analyte to sample 05 and changed format to state each analyte separately. Sample range updated to 0 – 100 cfu/g for sample 04. Addition of samples 47 (Detection of <i>Listeria</i> species in pooled sample), 48 (Pathogens in Infant formula), 49 (Microscopical Identification) and 50 (Indicator organisms in cheese).	C Taylor
25	Nov 2022	<i>Cronobacter</i> in 10g added to sample 48 and corrected reporting units	A Cheetham
26	Apr 2023	Added <i>E.coli</i> as analyte to sample 41.	M.Bell
27	Sept 2023	Range updated for sample 27. Samples 06 EG, CF and VG updated to vial and matrix. Sample 21 changed to vial and >25g matrix. New analyte added for 'Detection of <i>Campylobacter</i> species' per 10 cfu/g. Sample 32 changed to vial and 10g matrix. New samples 51, 52, 53, 54 added Added 'non-toxigenic strain' to <i>E.coli</i> O157 samples Removed sample 49 Add 'Identification of <i>Salmonella</i> ' to sample 37 Add 'Identification of Yeast and Mould' to sample 23 Samples 52, 53 and 54 marked as 'Accredited within the boundaries of LGC's flexible scope of UKAS accreditation'.	M.Bell T.Noblett N. Mason
28	Mar 2024	Updated the descriptions of sample 52 and 53	A Collins
29	Apr 2024	Sample 51 'supplied as' updated and organism ID analyte added.	M.Bell
30	July 2024	Sample 55 added. Sample 40, 43 and 47 format updated to ready to test.	M.Bell
31	Oct 2024	Matrices removed from samples 21 and 32. Range for sample 47 amended to 0 to 100 cfu/125g. Format change for sample 47 from RTT to vial and matrix.	M.Bell
32	Feb 2025	Added new sample PT-MC-56 (A & B) for <i>Salmonella</i> in Therapeutic foods.	T.Noblett
33	July 2025	Amended formats for samples 40 and 43.	M.Bell
34	May 2026	New UKAS logo added	A Collins
34.1	July 2026	Added Enterobacteriaceae analyte to sample 55	A Cheeham
35	July 2026	Amended formats for all vial plus matrix samples for Samples 6 and 7 and 07VG. New format for sample 42. Added new matrix options for Samples 7 and 40. Updated the range for Sample 27. Added new Sample 57.	B. Dogu

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 Food Microbiology Proficiency Testing Scheme (QMS) is to enable laboratories performing the microbiological analysis of food and dairy products to monitor their performance and compare it with that of their peers. QMS also aims to provide information to participants on technical issues and methodologies relating to testing of food and dairy products.

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

Test Materials

Details of test materials available in QMS 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 QMS 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 QMS 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

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

QMS 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

Sample PT-MC-03

Enumeration of *Salmonella* species

Supplied as:

1 x 10g skimmed milk powder

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

Sample PT-MC-04

Detection of *Cronobacter* species

Supplied as:

1 x 25g skimmed milk powder or oatmeal

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

Sample PT-MC-05

Enumeration of osmophilic yeast and mould (ISO 21527-2)

Supplied as:

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of osmophilic yeast	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of osmophilic mould	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of osmophilic yeast and osmophilic mould	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-06

Supplied as:

Detection of *Salmonella* species

- 06F** – *Salmonella* in generic food product – 25g oatmeal
06D – *Salmonella* in dairy/milk product – 25g skimmed milk powder
06EG – *Salmonella* in egg products – 2 x 10ml vial + minimum 50g egg powder
06CF – *Salmonella* in chicken faeces – 2 x 10ml vial + minimum 50g dried chicken faeces
06VG – *Salmonella* in salads and vegetables – 2 x 10ml vial + minimum 50g dried mixed vegetables
06CH – *Salmonella* in cheese – 2 x 10ml vial + minimum 50g cheese
06NS – *Salmonella* in seeds and nuts – 2 x 10ml vial + minimum 50g seeds and/or nuts
06TE – *Salmonella* in tea – 2 x 10ml vial + minimum 50g tea
06HB – *Salmonella* in herbs – 2 x 10ml vial + minimum 50g dried herb
06SP – *Salmonella* in spices – 2 x 10ml vial + minimum 50g pepper or spice

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

Sample PT-MC-07

Supplied as:

Detection of *Listeria* species

- 07F** – *Listeria* in food – 25g oatmeal
07D – *Listeria* in dairy/milk – 25g skimmed milk powder
07VG – *Listeria* in salads and vegetables – 2 x 10ml vial + minimum 50g mixed vegetables
07CH – *Listeria* in cheese – 2 x 10ml vial + minimum 50g cheese
07HB – *Listeria* in herbs – 2 x 10ml vial + minimum 50g herb
07EG – *Listeria* in egg products – 2 x 10ml vial + minimum 50g egg powder

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

Sample PT-MC-08

Supplied as:

Enumeration of *Listeria* species

1 x 10g skimmed milk powder or oatmeal

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

Sample PT-MC-09

Supplied as:

Enumeration of Enterococci

1 x 10g skimmed milk powder or oatmeal

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

Sample PT-MC-10

Supplied as:

Enumeration of Clostridium species

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Clostridium</i> species	ALL	Qual Form	0 to 100,000	NA	Detected/Not detected 10g	NA
Detection of <i>Clostridium perfringens</i>	ALL	Qual Form	0 to 100,000	NA	Detected/Not detected 10g	NA
Enumeration of <i>Clostridium perfringens</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Clostridium</i> species	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-11

Supplied as:

Spore counts

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of mesophilic aerobic spores	ALL	RMean	0 to 100,000	log ₁₀ 0.50	cfu/g	0
Thermophilic aerobic plate count	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of thermophilic aerobic spores	Heated for 10 min @ 80°C Heated for 12 min @ 100°C	RMean	0 to 100,000	log ₁₀ 0.50	cfu/g	0
Enumeration of highly heat resistant thermophilic aerobic spores	Heated for 30 min @ 100°C	RMean	0 to 100,000	log ₁₀ 0.50	cfu/g	0

Sample PT-MC-12

Supplied as:

Detection of Shigella species

1 x 25g oatmeal

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

Sample PT-MC-13

Supplied as:

Detection of *Vibrio* species

1 x 25g oatmeal

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

Sample PT-MC-14

Supplied as:

Detection of *Yersinia* species

1 x 25g skimmed milk powder

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Yersinia</i> species	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Detection of <i>Yersinia enterocolitica</i>	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA

Sample PT-MC-15

Supplied as:

Anaerobes

1 x 10g skimmed milk powder or oatmeal

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

Sample PT-MC-16

Supplied as:

TVC/indicator organisms

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-17

Supplied as:

Enumeration of *Staphylococcus* and *Bacillus* species

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of <i>Staphylococcus</i> species	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase-positive <i>Staphylococci</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Bacillus</i> species	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Bacillus cereus</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-18

Supplied as:

Low-level indicator organisms

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Escherichia coli</i>	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 10g	NA
Detection of Enterobacteriaceae	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 10g	NA
Detection of coliforms	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 10g	NA
Enumeration of <i>Escherichia coli</i>	ALL	RMean	0 to 1,000	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 1,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 1,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-20

Supplied as:

Enumeration of thermotolerant coliforms

1 x 10g skimmed milk powder or oatmeal

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

Sample PT-MC-21

Supplied as:

Detection of *Campylobacter* species

1 x 10ml vial to represent 10g or 25g sample

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

Sample PT-MC-22

Supplied as:

Detection of *E.coli* O157 (non-toxigenic strain)

1 x 25g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Escherichia coli</i> O157	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA

Sample PT-MC-23

Supplied as:

Enumeration of yeast and mould (ISO 21527-1)

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of yeast	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of mould	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of yeast and mould combined	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Identification of yeast and mould to genus and/or species level	ALL	Formulation	NA	NA	NA	NA

Sample PT-MC-24

Supplied as:

Enumeration of Lactic acid bacteria

24F – Lactic acid bacteria in food - 10g oatmeal

24D – Lactic acid bacteria in dairy/milk - 10g skimmed milk powder

24HB – Lactic acid bacteria in herb - 10g dried herb + 10ml vial

24SP – Lactic acid bacteria in spice - 10g pepper or spice + 10ml vial

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of lactic acid bacteria	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-25

Supplied as:

Psychrotrophs

1 x 10g skimmed milk powder or oatmeal

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

Sample PT-MC-26

Supplied as:

Pseudomonas species

1 x 10g skimmed milk powder or oatmeal

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of <i>Pseudomonas</i> species	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Detection of <i>Pseudomonas</i> species	ALL	Qual Form	0 to 100,000	NA	Detected/Not detected 10g	NA

Sample PT-MC-27

Supplied as:

Enumeration of probiotic bacteria

1 x 10ml vial to represent 10g sample (once reconstituted in 10ml diluent)

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of <i>Bifidobacterium</i> species	ALL	RMean	0 to 100,000,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Lactobacillus</i> species	ALL	RMean	0 to 100,000,000	log ₁₀ 0.35	cfu/g	0
Combined enumeration of <i>Lactobacillus</i> species and <i>Bifidobacterium</i> species	ALL	RMean	0 to 200,000,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-29

Indicator organisms in tea

Supplied as:

1 x 10ml vial with 10g tea matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of coagulase positive Staphylococci	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of yeast	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of mould	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of yeast and mould	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0

Sample PT-MC-32

Enumeration of *Campylobacter* species

Supplied as:

1 x 10ml vial to represent 10g sample (once reconstituted in 10ml diluent)

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of <i>Campylobacter</i> species	ALL	RMean	0 to 100,000	$\log_{10}$ 0.50	cfu/g	0

Sample PT-MC-33

Identification Test (non-pathogen)

Supplied as:

1 x 10ml vial containing a single organism. The sample may contain biosafety level 1 or 2 organisms, including *Staphylococcus*, *Bacillus* and *Clostridium*, but will not contain the recognised food pathogens such as *Salmonella*, *Listeria*, *Campylobacter* or *STEC*.

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Identification of unknown organism to family, genus or species level.	ALL	Formulation	NA	NA	NA	NA

Sample PT-MC-34

Salmonella identification

Supplied as:

1 x 10ml vial containing a single organism

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
<i>Salmonella</i> identification to serogroup or serovar	ALL	Formulation	NA	NA	NA	NA

Sample PT-MC-35

Supplied as:

Paper exercise

Participants will be provided with a photograph and a scenario in order to count the number of colonies and calculate the number of microorganisms in the original sample.

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Counting of colonies and calculation of number of microorganisms	Visual count only	Formulation	NA	Greater of robust SD or log 0.05	cfu/g	NA

Sample PT-MC-36 (A & B)

Supplied as:

Quantitative Package

36D – Quantitative in dairy/milk - 2 x 10ml vial with minimum 20g skimmed milk powder matrix

36HB – Quantitative in herbs – 2 x 10ml vial with minimum 20g herb matrix

36SP – Quantitative in spice – 2 x 10ml vial with minimum 20g pepper or spice matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Bacillus cereus</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase-positive Staphylococci	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Detection of coagulase-positive Staphylococci	ALL	QualForm	0 to 100,000	NA	Detected/Not detected 10g	NA
Enumeration of yeast	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of mould	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of yeast and mould	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

Sample PT-MC-37
(A & B)

Qualitative Package

Supplied as:

37D - 2 x 10ml vial with minimum 200g skimmed milk powder matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Escherichia coli</i> O157 (non-toxigenic strain)	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Detection of <i>Listeria</i> species	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Detection of <i>Listeria monocytogenes</i>	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25	NA
Identification of <i>Listeria</i> species	ALL	Formulation	NA	NA	NA	NA
Detection of <i>Salmonella</i> species	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Identification of <i>Salmonella</i> species	ALL	Formulation	NA	NA	NA	NA

Sample PT-MC-38

Detection of Clostridium species and Staphylococcus species in milk

Supplied as:

1 x 10ml vial with minimum 20g skimmed milk powder matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Clostridium perfringens</i>	ALL	Qual Form	0 to 100	NA	Detected/Not detected 10g	NA
Detection of coagulase positive Staphylococci	ALL	Qual Form	0 to 100	NA	Detected/Not detected 10g	NA

Sample PT-MC-39

Bacterial count in milk

Supplied as:

1 x 10g skimmed milk powder matrix

Analyte	Method	AV	Range cfu/ml	SDPA	Reporting units	DP
Bacterial level by Bactoscan	Bactoscan	RMean	ALL	TBC	Bacteria/ml	NA
Bacterial level by colony count	ALL	RMean	ALL	TBC	cfu/ml	NA

Sample PT-MC-40

Supplied as:

Detection of *Salmonella* species in pooled sample

40D – *Salmonella* in dairy/milk - 1 x 10ml vial with minimum 375g skimmed milk powder matrix

40EG – *Salmonella* in egg products - 1 x 10ml vial with minimum 375g egg powder

40IF – *Salmonella* in infant formula - 1 x 10ml vial with minimum 375g infant formula

40IFP – *Salmonella* in infant formula with probiotics - 1 x 10ml vial with minimum 375g infant formula with probiotics

Analyte	Method	AV	Range cfu/375g	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	ALL	Qual Form	0 to 100	NA	Detected/Not detected 375g	NA

Sample PT-MC-41

Supplied as:

Indicator and spoilage organisms in 'ready meal'

1 x 10ml vial with 10g dried food matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of coagulase positive Staphylococci	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of yeast	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of mould	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0
Enumeration of yeast and mould	ALL	RMean	0 to 100,000	$\log_{10}$ 0.35	cfu/g	0

Sample PT-MC-42 (A&B)

Supplied as:

Detection of *Cronobacter* species at low-level

2 x 10ml vial with minimum 50g skimmed milk powder matrix

Analyte	Method	AV	Range cfu/25g	SDPA	Reporting units	DP
Detection of <i>Cronobacter</i> species	ALL	Qual Form	0 to 50	NA	Detected/Not detected 25g	NA

Sample PT-MC-43

Detection of Cronobacter species in 375g

Supplied as:

1 x 10ml vial with minimum 375g skimmed milk powder matrix

Analyte	Method	AV	Range cfu/375g	SDPA	Reporting units	DP
Detection of <i>Cronobacter</i> species	ALL	Qual Form	0 to 50	NA	Detected/Not detected 375g	NA

Sample PT-MC-44

Pathogens in 'ready-to-eat' food

Supplied as:

1 x 10ml vial with minimum 100g dried processed food e.g. crisps, cakes, biscuits, confectionary, cereal and other snacks.

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

Sample PT-MC-45

Thermophilic acidophilic bacteria

Supplied as:

1 x 10ml vial with 10g fruit matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Enumeration of thermophilic acidophilic bacteria	ALL	RMean	0 to 1,000	log ₁₀ 0.35	cfu/g	0
Detection of guaiacol producing thermophilic acidophilic bacteria	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 10g	NA

Sample PT-MC-46 (A&B) Detection of *Salmonella* Typhimurium and/or Enteritidis in Egg powder
Supplied as: **46EG** – Egg products – 2 x 25g egg powder

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

Sample PT-MC-47 Detection of *Listeria* species in 125g milk powder
Supplied as: 1 x 10ml vial with 125g skimmed milk powder

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

Sample PT-MC-48* (A&B) Pathogens in Infant formula
Supplied as: 2 x 10ml vials with minimum 100g infant formula

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Detection of <i>Cronobacter</i> species	ALL	Qual Form	0 to 1,000	NA	Detected/Not detected 25g	NA
Detection of <i>Cronobacter</i> species	ALL	Qual Form	0 to 2,500	NA	Detected/Not detected 10g	NA

Sample PT-MC-50* Indicator organisms in cheese
Supplied as: 1 x lyophilised 10ml vial with 10g dried cheese matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase-positive Staphylococci	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

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

Sample PT-MC-51*

Supplied as:

Commercial Sterility testing in milk

5 x 10ml Lyophilised milk in vials which may or may not contain microorganisms at low levels.

Analyte	Method	AV	Range cfu/vial	SDPA	Reporting units	DP
Commercial sterility	ALL	Qual Form	<100	N/A	Sterility Pass/Sterility Fail	N/A
Identification of microorganisms	ALL	Formulation	NA	NA	NA	NA

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

Sample PT-MC-52‡

Supplied as:

Gram-negative panel

3 x 10ml vials each containing single organism (contents may include pathogens and/or non-pathogens)

Analyte	Method	AV	Range cfu/vial	SDPA	Reporting units	DP
Confirmation and/or identification of Gram-negative organisms (including <i>Salmonella</i>) to genus and/or species	ALL	Formulation	NA	N/A	NA	N/A

Sample PT-MC-53‡

Supplied as:

Gram-positive panel

3 x 10ml vials each containing single organism (contents may include pathogens and/or non-pathogens)

Analyte	Method	AV	Range cfu/vial	SDPA	Reporting units	DP
Confirmation and/or identification of Gram-positive organisms (including <i>Listeria</i>) to genus and/or species	ALL	Formulation	NA	N/A	NA	N/A

Sample PT-MC-54‡

Supplied as:

Mixed culture for identification

1 x 10ml vial containing up to 5 different organisms (contents may include pathogens and/or non-pathogens)

Analyte	Method	AV	Range cfu/vial	SDPA	Reporting units	DP
Identification of organisms to genus and/or species	ALL	Formulation	NA	N/A	NA	N/A

‡Accredited within the boundaries of LGC's flexible scope of UKAS accreditation

Sample PT-MC-55*

Supplied as:

Indicator organisms in nuts

1 x lyophilised 10ml vial with 10g nut matrix

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

Sample PT-MC-56* (A&B)

Detection of *Salmonella* species in foods for malnutrition of therapeutic use.

Supplied as:

2 x 25g high lipid and protein peanut paste matrix

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Detection of <i>Salmonella</i> species	ALL	Qual Form	0 to 1000	NA	Detected/Not detected 25g	NA

Sample PT-MC-57*

Supplied as:

TVC/indicator organisms in egg powder

1 x 10ml vial with 10g egg powder

Analyte	Method	AV	Range cfu/g	SDPA	Reporting units	DP
Total aerobic mesophilic count	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coliforms	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of Enterobacteriaceae	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of <i>Escherichia coli</i>	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0
Enumeration of coagulase-positive Staphylococci	ALL	RMean	0 to 100,000	log ₁₀ 0.35	cfu/g	0

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