

Fapas[®]

Food Microbiology

Proficiency Testing
Programme

Jan 2019 – Mar 2020



f a p a s

Proficiency Testing from **fera**



Contents

HOW TO USE THIS DOCUMENT	3
FOOD MICROBIOLOGY PROFICIENCY TESTING PROGRAMME	4
ENUMERATION TESTS	5
Aerobic Plate Count (APC)	5
<i>Alicyclobacillus</i> spp.	6
<i>Bacillus cereus</i>	6
<i>Campylobacter</i> spp.	6
<i>Clostridium perfringens</i> / <i>Clostridium</i> spp.	7
Coagulase Positive Staphylococci	7
Coliforms	8
Enterobacteriaceae	8
Enterococci	9
<i>Escherichia coli</i>	9
Lactic Acid Bacteria	9
<i>Listeria monocytogenes</i>	10
Yeasts & Moulds	10
DETECTION TESTS	11
<i>Campylobacter</i> spp.	11
<i>Cronobacter (Enterobacter) sakazakii</i>	11
<i>Escherichia coli</i> O157:H7	12
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp.	13
<i>Salmonella</i> spp.	14
<i>Vibrio parahaemolyticus</i>	15
APPENDICES	
APPENDIX 1: DISTRIBUTION DETAILS JANUARY TO DECEMBER 2019	16
APPENDIX 2: DISTRIBUTION DETAILS JANUARY TO MARCH 2020	21
APPENDIX 3: ORDERING INFORMATION – FOOD MICROBIOLOGY	26
APPENDIX 4: AGENT INFORMATION	28



HOW TO USE THIS DOCUMENT

This document lists all the food microbiology proficiency tests (PTs) we have planned for the period January 2019 to March 2020 inclusive. It is provided as an off-line companion to our on-line ordering system on our website at fapas.com/shop. Our website will always be the most up to date source of information and thus the **data on the website is definitive**.

Our food microbiology PTs are grouped into two broad categories, enumeration (quantitative) and detection (qualitative) and then within each category the PTs are listed by target organism and then by the date the test materials will be dispatched to customers.

The **dispatch date** shown is the planned date on which the samples will be shipped from Fapas® to participants. An automatic email announcing the dispatch is sent to the contact named for that test. Participants select this contact during the on-line ordering process. Several different PTs are dispatched on any given date. These groups of PTs are known as 'Distributions'. These Distributions are presented in a grid layout in APPENDIX 1 and APPENDIX 2.

Each test has a **product code** and an **item code**.

- The product code is an alphanumeric description of the combination of matrix and analyte, it doesn't change from year to year, i.e. searching for the product codes of tests in the previous programme will find the equivalent tests this year.
- The item code is the *unique* reference for the test being dispatched on a given date.

The **fee** shown for each test is solely the cost of participating in that test. It does *not* include any carriage costs because these charges are applied to your complete order. When you place your order on-line you will see the carriage costs that are applicable. For those tests that are, by default, sent by regular post, you have the option of upgrading to courier. For tests where rapid delivery is essential the samples are automatically sent by courier and you cannot change this.

APPENDIX 3 provides some guidance on the process of ordering and taking delivery of a Fapas® PT. **Please note, the information in APPENDIX 3 does *not* constitute our Standard Terms & Conditions for Proficiency Testing Schemes, which are available on our website at fapas.com/terms-conditions.**

APPENDIX 4 gives the contact details of our International Agents. If there is an agent in your country you are advised to benefit from their services (assistance with ordering, invoicing in local currency and advising on potential sample import issues).



FOOD MICROBIOLOGY PROFICIENCY TESTING PROGRAMME

Apart from allergens, the majority of food-related illnesses are a result of ingestion of microorganisms, not chemical contamination. The challenge for laboratories is to demonstrate competence in microbiology analysis on test samples which most closely replicate their real-world testing. Fapas® Food Microbiology proficiency test samples are real food matrices inoculated with the target organisms and requiring only reconstitution before analysis. The samples also include background flora to add identification challenge.

The test samples are sent by courier with packaging developed over many years to ensure that samples arrive at the participants' laboratories ready for analysis. Specified times are provided in the instructions for the advised period of analysis. In addition, stability testing is carried out over the course of the proficiency test to ensure confidence that the stability of samples does not compromise the test.

Fapas® Food Microbiology proficiency tests are scheduled in distributions of multiple separate tests. There is no obligation to take all the individual proficiency tests in any one distribution. This distribution arrangement ensures that the samples are produced in dedicated batches for the distribution and that shipping is economical for laboratories ordering multiple proficiency tests.

For more general information on Fapas® proficiency testing as a whole, please see information available on our website: www.fapas.com.



ENUMERATION TESTS

The test samples are prepared at levels corresponding to food spoilage contamination.

For each enumeration (quantitative) proficiency test, participants will receive, as appropriate, a lyophilised sample equivalent to 10 g after reconstitution, 10 ml of sample or 1 swab.

Aerobic Plate Count (APC)

See also:

- Enumeration tests listed under *Bacillus cereus* and Enterobacteriaceae

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/02/2019	FMOE13-MRP2	M240e13	beef	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	122
25/03/2019	FMOE5-MRP2	M241e05	beef	Enterobacteriaceae, Aerobic Plate Count	equivalent to 10 g	122
25/03/2019	FMOE9-DRY14	M241e09	milk powder	Aerobic Plate Count	equivalent to 10 g	122
29/04/2019	FMOE13-DRY14	M242e13	milk powder	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	126
01/07/2019	FMOE9-UNF12	M244e09	cotton swab	Aerobic Plate Count	1 swab	126
02/09/2019	FMOE9-DRY14	M245e09	milk powder	Aerobic Plate Count	equivalent to 10 g	126
25/11/2019	FMOE9-MRP14	M248e09	chicken	Aerobic Plate Count	equivalent to 10 g	126
24/02/2020	FMOE13-MRP2	M250e13	beef	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	126
30/03/2020	FMOE5-MRP2	M251e05	beef	Enterobacteriaceae, Aerobic Plate Count	equivalent to 10 g	126
30/03/2020	FMOE9-DRY14	M251e09	milk powder	Aerobic Plate Count	equivalent to 10 g	126



***Alicyclobacillus* spp.**

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
24/02/2020	FMOE20-DRN17	M250e22	fruit juice	<i>Alicyclobacillus</i> spp.	10 ml	126

Bacillus cereus

See also:

- Enumeration tests listed under Aerobic Plate Count

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOE12-CCP22	M239e12	cooked rice	<i>Bacillus cereus</i>	equivalent to 10 g	122
25/02/2019	FMOE13-MRP2	M240e13	beef	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	122
29/04/2019	FMOE13-DRY14	M242e13	milk powder	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	126
03/06/2019	FMOE12-CCP22	M245e12	cooked rice	<i>Bacillus cereus</i>	equivalent to 10 g	126
27/01/2020	FMOE12-CCP22	M249e12	cooked rice	<i>Bacillus cereus</i>	equivalent to 10 g	126
24/02/2020	FMOE13-MRP2	M250e13	beef	<i>Bacillus cereus</i> , Aerobic Plate Count	equivalent to 10 g	126

***Campylobacter* spp.**

See also:

- Detection tests listed under *Campylobacter* spp.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/11/2019	FMOE17-MRP14	M248e17	chicken	<i>Campylobacter</i> spp.	equivalent to 10 g	126



***Clostridium perfringens* / *Clostridium* spp.**

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOE6-DRY14	M239e06	milk powder	<i>Clostridium perfringens</i>	equivalent to 10 g	122
25/03/2019	FMOE6-MRP2	M241e06	beef	<i>Clostridium perfringens</i>	equivalent to 10 g	122
29/04/2019	FMOE6-DRY14	M242e06	milk powder	<i>Clostridium perfringens</i>	equivalent to 10 g	126
03/06/2019	FMOE6-INF10	M243e06	infant formula	<i>Clostridium</i> spp.	equivalent to 10 g	126
28/10/2019	FMOE6-MRP2	M247e06	beef	<i>Clostridium perfringens</i>	equivalent to 10 g	126
27/01/2020	FMOE6-DRY14	M249e06	milk powder	<i>Clostridium perfringens</i>	equivalent to 10 g	126
30/03/2020	FMOE6-MRP2	M251e06	beef	<i>Clostridium perfringens</i>	equivalent to 10 g	126

Coagulase Positive Staphylococci

These tests typically employ *S. aureus* as the Coagulase Positive Staphylococcus organism but Fapas® reserves the right to use an alternative Coagulase Positive Staphylococcus at any time.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOE14-MRP2	M239e14	beef	Coagulase Positive Staphylococci	equivalent to 10 g	122
03/06/2019	FMOE14-DRY14	M243e14	milk powder	Coagulase Positive Staphylococci	equivalent to 10 g	126
01/07/2019	FMOE14-MRP2	M244e14	beef	Coagulase Positive Staphylococci	equivalent to 10 g	126
28/10/2019	FMOE14-DRY14	M247e14	milk powder	Coagulase Positive Staphylococci	equivalent to 10 g	126
27/01/2020	FMOE14-MRP2	M249e14	beef	Coagulase Positive Staphylococci	equivalent to 10 g	126



Coliforms

See also:

- Enumeration tests listed under *Escherichia coli* and Enterobacteriaceae
- Detection tests listed under *E. coli* O157:H7

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/02/2019	FMOE18-DRY14	M240e18	milk powder	Coliforms	equivalent to 10 g	122
01/07/2019	FMOE18-MRP2	M244e18	beef	Coliforms	equivalent to 10 g	126
02/09/2019	FMOE18-DRY14	M245e18	milk powder	Coliforms	equivalent to 10 g	126
25/11/2019	FMOE4-MRP2	M248e04	beef	Enterobacteriaceae, Coliforms, <i>Escherichia coli</i>	equivalent to 10 g	126
24/02/2020	FMOE18-DRY14	M250e18	milk powder	Coliforms	equivalent to 10 g	126

Enterobacteriaceae

See also:

- Enumeration tests listed under APC, Coliforms, *Escherichia coli* and Enterobacteriaceae

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOE3-MRP2	M239e03	beef	Enterobacteriaceae	equivalent to 10 g	122
25/03/2019	FMOE5-MRP2	M241e05	beef	Enterobacteriaceae, Aerobic Plate Count	equivalent to 10 g	122
03/06/2019	FMOE3-DRY14	M243e03	milk powder	Enterobacteriaceae	equivalent to 10 g	126
02/09/2019	FMOE3-VEG61	M245e03	salad	Enterobacteriaceae	equivalent to 10 g	126
25/11/2019	FMOE4-MRP2	M248e04	beef	Enterobacteriaceae, Coliforms, <i>Escherichia coli</i>	equivalent to 10 g	126
27/01/2020	FMOE3-MRP2	M249e03	beef	Enterobacteriaceae	equivalent to 10 g	126
30/03/2020	FMOE5-MRP2	M251e05	beef	Enterobacteriaceae, Aerobic Plate Count	equivalent to 10 g	126



Enterococci

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
29/4/2019	FMOE19-MRP2	M242e19	beef	Enterococci	equivalent to 10 g	126

Escherichia coli

See also:

- Enumeration tests listed under Coliforms and Enterobacteriaceae
- Detection tests listed under *Escherichia coli* O157:H7

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
29/04/2019	FMOE10-MRP2	M242e10	beef	<i>Escherichia coli</i>	equivalent to 10 g	126
02/09/2019	FMOE10m-MRP2	M245e10	beef	<i>Escherichia coli</i> by MPN	equivalent to 10 g	126
30/09/2019	FMOE10-MRP2	M246e10	beef	<i>Escherichia coli</i>	equivalent to 10 g	126
28/10/2019	FMOE10-DRY14	M247e10	milk powder	<i>Escherichia coli</i>	equivalent to 10 g	126
25/11/2019	FMOE4-MRP2	M248e04	beef	Enterobacteriaceae, Coliforms, <i>Escherichia coli</i>	equivalent to 10 g	126

Lactic Acid Bacteria

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
30/09/2019	FMOE1-MRP2	M246e01	beef	Lactic Acid Bacteria	equivalent to 10 g	126



Listeria monocytogenes

See also:

- Detection tests listed under *Listeria monocytogenes* / *Listeria* spp.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/03/2019	FMOE2-MRP14	M241e02	chicken	<i>Listeria monocytogenes</i>	equivalent to 10 g	122
02/09/2019	FMOE2-SEA25	M245e02	smoked fish	<i>Listeria monocytogenes</i>	equivalent to 10 g	126
30/09/2019	FMOE2-MRP14	M246e02	chicken	<i>Listeria monocytogenes</i>	equivalent to 10 g	126
30/03/2020	FMOE2-MRP14	M251e02	chicken	<i>Listeria monocytogenes</i>	equivalent to 10 g	126

Yeasts & Moulds

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/02/2019	FMOE15-CCP28	M240e15	flour	Yeasts & Moulds (sum of)	equivalent to 10 g	122
03/06/2019	FMOE15-MRP2	M243e15	beef	Yeasts & Moulds (sum of)	equivalent to 10 g	126
02/09/2019	FMOE15-CCP28	M244e15	flour	Yeasts & Moulds (sum of)	equivalent to 10 g	126
30/09/2019	FMOE16-DRN17	M246e15	fruit juice	Yeasts	10 ml	126
25/11/2019	FMOE15-CCP28	M248e15	flour	Yeasts & Moulds (sum of)	equivalent to 10 g	126
24/02/2020	FMOE15-CCP28	M250e15	flour	Yeasts & Moulds (sum of)	equivalent to 10 g	126



DETECTION TESTS

For each detection (qualitative) proficiency test, participants will receive, as appropriate, two lyophilised samples equivalent to either 10 g or 25 g after reconstitution or 2 swabs.

Campylobacter spp.

See also:

- Enumeration tests listed under *Campylobacter spp.*

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
29/04/2019	FMOD17-MRP14	M242d17	chicken	<i>Campylobacter spp.</i>	equivalent to 2 x 25 g	126
01/07/2019	FMOD17-DRY14	M244d17	milk powder	<i>Campylobacter spp.</i>	equivalent to 2 x 25 g	126
28/10/2019	FMOD17-MRP14	M247d17	chicken	<i>Campylobacter spp.</i>	equivalent to 2 x 25 g	126

Cronobacter (Enterobacter) sakazakii

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/02/2019	FMOD20-INF10	M240d20	infant formula	<i>Cronobacter (Enterobacter) sakazakii</i>	equivalent to 2 x 10 g	122
24/02/2020	FMOD20-INF10	M250d20	infant formula	<i>Cronobacter (Enterobacter) sakazakii</i>	equivalent to 2 x 10 g	126



***Escherichia coli* O157:H7**

The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has *eae* genes but the genes for VT1/VT2 (STX1/STX2) are absent.

See also:

- Enumeration tests listed under Colliforms and *Escherichia coli*

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/03/2019	FMOD11-VEG61	M241d11	salad	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	122
03/06/2019	FMOD11-MRP2	M243d11	beef	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126
02/09/2019	FMOD11-DRY18	M245d11	cheese	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126
30/09/2019	FMOD11-CCP28	M246d11	flour	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126
28/10/2019	FMOD11-MRP2	M247d11	beef	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126
25/11/2019	FMOD11-VEG71	M248d11	sprouting seeds and lettuce	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126
30/03/2020	FMOD11-VEG61	M251d11	salad	<i>Escherichia coli</i> O157:H7	equivalent to 2 x 25 g	126



***Listeria monocytogenes* / *Listeria* spp.**

See also:

- Enumeration tests listed under *Listeria monocytogenes*

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOD2-MRP2	M239d02	beef	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	122
25/02/2019	FMOD2-UNF11	M240d02	sponge swab	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	2 x swab	122
25/03/2019	FMOD2-DRY14	M241d02	milk powder	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	122
29/04/2019	FMOD2-DRY18	M242d02	soft cheese	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
03/06/2019	FMOD2-MRP14	M243d02	chicken	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
01/07/2019	FMOD2-MRP47	M244d02	dry cured meat	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
30/09/2019	FMOD2-SEA28	M246d02	smoked fish	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
28/10/2019	FMOD2-PRO40	M247d02	Ready to Eat (RTE) meal	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
25/11/2019	FMOD2-MRP14	M248d021	chicken	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
25/11/2019	FMOD2-VEG88	M248d022	mixed vegetables	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
27/01/2020	FMOD2-MRP2	M249d02	beef	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126
24/02/2020	FMOD2-UNF11	M250d02	sponge swabs	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	2 swabs	126
30/03/2020	FMOD2-DRY14	M251d02	milk powder	<i>Listeria monocytogenes</i> , <i>Listeria</i> spp.	equivalent to 2 x 25 g	126



Salmonella spp.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
28/01/2019	FMOD7-MRP14	M239d071	chicken	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	122
28/01/2019	FMOD7-CON2	M239d072	chocolate	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	122
25/02/2019	FMOD7-UNF11	M240d07	sponge swabs	<i>Salmonella</i> spp.	2 x swab	122
25/03/2019	FMOD7-EGG3	M241d071	dried egg	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	122
25/03/2019	FMOD7-DRY14	M241d072	milk powder	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	122
29/04/2019	FMOD7-VEG71	M242d07	sprouting seeds and lettuce	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
03/06/2019	FMOD7-VEG61	M243d071	salad	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
03/06/2019	FMOD7-AFE1	M243d072	animal feed	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
01/07/2019	FMOD7-MRP35	M244d071	pork	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
01/07/2019	FMOD7-VEG47	M244d072	herbs	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
02/09/2019	FMOD7-MRP14	M245d071	chicken	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
02/09/2019	FMOD7-DRY14	M245d072	milk powder	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
30/09/2019	FMOD7-CON3	M246d07	chocolate powder	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
28/10/2019	FMOD7-MRP2	M247d071	beef	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
28/10/2019	FMOD7-INF10	M247d072	infant formula	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
25/11/2019	FMOD7-SPI11	M248d07	ground pepper	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
27/01/2020	FMOD7-MRP14	M249d071	chicken	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
27/01/2020	FMOD7-CON2	M249d072	chocolate	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
24/02/2020	FMOD7-UNF11	M250d07	sponge swabs	<i>Salmonella</i> spp.	2 x swab	126
30/03/2020	FMOD7-EGG3	M251d071	dried egg	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126
30/03/2020	FMOD7-DRY14	M251d072	milk powder	<i>Salmonella</i> spp.	equivalent to 2 x 25 g	126



Vibrio parahaemolyticus

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
25/02/2019	FMOD21-SEA11	M240d21	fish	<i>Vibrio parahaemolyticus</i>	equivalent to 2 x 25 g	122
30/09/2019	FMOD21-SEA11	M246d21	fish	<i>Vibrio parahaemolyticus</i>	equivalent to 2 x 25 g	126
24/02/2020	FMOD21-SEA11	M250d21	fish	<i>Vibrio parahaemolyticus</i>	equivalent to 2 x 25 g	126



APPENDIX 1: DISTRIBUTION DETAILS JANUARY TO DECEMBER 2019

Beef and Cured Meat Matrices

Enumeration Tests	Distribution Number and Date of Dispatch									
	239 28/01/19	240 25/02/19	241 25/03/19	242 29/4/19	243 03/06/19	244 01/07/19	245 02/09/19	246 30/09/19	247 28/10/19	248 25/11/19
<i>Bacillus cereus</i> / Aerobic Plate Count in beef		M240e13								
<i>Clostridium perfringens</i> in beef			M241e06						M247e06	
Coagulase Positive Staphylococci in beef [1]	M239e14					M244e14				
Coliforms in beef						M244e18				
Enterobacteriaceae / Aerobic Plate Count in beef			M241e05							
Enterobacteriaceae in beef	M239e03									
Enterobacteriaceae / Coliforms / <i>Escherichia coli</i> in beef										M248e04
Enterococci in beef				M242e19						
<i>Escherichia coli</i> in beef				M242e10				M246e10		
<i>Escherichia coli</i> (MPN) in beef [2]							M245e10			
Lactic Acid Bacteria in beef								M246e01		
Yeasts and Moulds in beef					M243e15					
Detection Tests										
<i>Escherichia coli</i> O157:H7 in beef [3]					M243d11				M247d11	
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in beef	M239d02									
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in dry cured meat						M244d02				
<i>Salmonella</i> spp. in beef									M247d071	

[1] These tests typically employ *S. aureus* as the Coagulase Positive Staphylococcus organism but Fapas® reserves the right to use an alternative Coagulase Positive Staphylococcus at any time.

[2] This PT is for enumeration by the Most Probable Number method (MPN). **Participants will be asked to submit results as MPN/g.**

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Chicken, Fish and Pork Matrices

Enumeration Tests	Distribution Number and Date of Dispatch									
	239 28/01/19	240 25/02/19	241 25/03/19	242 29/04/19	243 03/06/19	244 01/07/19	245 02/09/19	246 30/09/19	247 28/10/19	248 25/11/19
Aerobic Plate Count in chicken										M248e09
<i>Campylobacter</i> spp. in chicken										M248e17
<i>Listeria monocytogenes</i> in chicken			M241e02					M246e02		
<i>Listeria monocytogenes</i> in smoked fish						M245e02				
Detection Tests										
<i>Campylobacter</i> spp. in chicken				M242d17					M247d17	
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in chicken					M243d02					M248d021
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in smoked fish								M246d02		
<i>Salmonella</i> spp. in chicken	M239d071						M245d071			
<i>Salmonella</i> spp. in pork						M244d071				
<i>Vibrio parahaemolyticus</i> in fish		M240d21						M246d21		



Milk Cheese and Egg Matrices

Enumeration Tests	Distribution Number and Date of Dispatch									
	239 28/01/19	240 25/02/19	241 25/03/19	242 29/04/19	243 03/06/19	244 01/07/19	245 02/09/19	246 30/09/19	247 28/10/19	248 25/11/19
Aerobic Plate Count in milk powder			M241e09				M245e09			
<i>Bacillus cereus</i> / Aerobic Plate Count in milk powder				M242e13						
<i>Clostridium perfringens</i> in milk powder	M239e06			M242e06						
Coagulase Positive Staphylococci in milk powder [1]					M243e14				M247e14	
Coliforms in milk powder		M240e18					M245e18			
Enterobacteriaceae in milk powder					M243e03					
<i>Escherichia coli</i> in milk powder									M247e10	
Detection Tests										
<i>Campylobacter</i> spp. in milk powder						M244d17				
<i>Escherichia coli</i> O157:H7 [3] in cheese							M245d11			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in milk powder			M241d02							
<i>Listeria monocytogenes</i> in soft cheese				M242d02						
<i>Salmonella</i> spp. in egg (dried)			M241d071							
<i>Salmonella</i> spp. in milk powder			M241d072				M245d072			

[1] These tests typically employ *S. aureus* as the Coagulase Positive Staphylococcus organism but Fapas® reserves the right to use an alternative Coagulase Positive Staphylococcus at any time.

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Fruit and Salad Matrices

Enumeration Tests	Distribution Number and Date of Dispatch									
	239 28/01/19	240 25/02/19	241 25/03/19	242 29/04/19	243 03/06/19	244 01/07/19	245 02/09/19	246 30/09/19	247 28/10/19	248 25/11/19
Enterobacteriaceae in salad							M245e03			
<i>Alicyclobacillus</i> spp. in fruit juice										
Yeasts in fruit juice								M246e15		
Detection Tests										
<i>Escherichia coli</i> O157:H7 [3] in salad			M241d11							
<i>Escherichia coli</i> O157:H7 [3] in sprouting seeds and lettuce										M248d11
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp in mixed vegetables										M248d022
<i>Salmonella</i> spp. in salad						M243d071				
<i>Salmonella</i> spp. in sprouting seeds and lettuce				M242d07						

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Miscellaneous Matrices

Enumeration Tests	Distribution Number and Date of Dispatch									
	239 28/01/19	240 25/02/19	241 25/03/19	242 29/04/19	243 03/06/19	244 01/07/19	245 02/09/19	246 30/09/19	247 28/10/19	248 25/11/19
Aerobic Plate Count on cotton swab						M244e09				
<i>Bacillus cereus</i> in cooked rice	M239e12						M245e12			
<i>Clostridium</i> spp. in infant formula					M243e06					
Yeasts and Moulds in flour		M240e15				M244e15				M248e15
Detection Tests										
<i>Cronobacter (Enterobacter) sakazakii</i> in infant formula [4]		M240d20								
<i>Salmonella</i> spp. in infant formula									M247d072	
<i>Escherichia coli</i> O157:H7 [3] in flour							M246d11			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp in Ready to Eat (RTE) meal									M247d02	
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp.on sponge swabs [5]		M240d02								
<i>Salmonella</i> spp. in animal feed					M243d072					
<i>Salmonella</i> spp. in chocolate	M239d072									
<i>Salmonella</i> spp. in chocolate powder							M246d07			
<i>Salmonella</i> spp. in ground pepper										M248d07
<i>Salmonella</i> spp. in herbs						M244d072				
<i>Salmonella</i> spp. on sponge swabs [5]		M240d07								

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.

[4] For this detection test participants will receive 2 samples each equivalent to 10 g.

[5] For this detection test participants will receive 2 sponge swabs.



APPENDIX 2: DISTRIBUTION DETAILS JANUARY TO MARCH 2020

Beef and Cured Meat Matrices

Enumeration Tests	Distribution Number and Date of Dispatch		
	249 27/01/20	250 24/02/20	251 30/03/20
<i>Bacillus cereus</i> / Aerobic Plate Count in beef		M250e13	
<i>Clostridium perfringens</i> in beef			M251e06
Coagulase Positive Staphylococci in beef [1]	M249e14		
Coliforms in beef			
Enterobacteriaceae / Aerobic Plate Count in beef			M251e05
Enterobacteriaceae in beef	M249e03		
Enterobacteriaceae / Coliforms / <i>Escherichia coli</i> in beef			
Enterococci in beef			
<i>Escherichia coli</i> in beef			
<i>Escherichia coli</i> (MPN) in beef [2]			
Lactic Acid Bacteria in beef			
Yeasts and Moulds in beef			
Detection Tests			
<i>Escherichia coli</i> O157:H7 in beef [3]			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in beef	M249d02		
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in dry cured meat			
<i>Salmonella</i> spp. in beef			

[1] These tests typically employ *S. aureus* as the Coagulase Positive Staphylococcus organism but Fapas® reserves the right to use an alternative Coagulase Positive Staphylococcus at any time.

[2] This PT is for enumeration by the Most Probable Number method (MPN). **Participants will be asked to submit results as MPN/g.**

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Chicken Fish and Pork Matrices

Enumeration Tests	Distribution Number and Date of Dispatch		
	249 27/01/20	250 24/02/20	251 30/03/20
Aerobic Plate Count in chicken			
<i>Campylobacter</i> spp. in chicken			
<i>Listeria monocytogenes</i> in chicken			M251e02
<i>Listeria monocytogenes</i> in smoked fish			
Detection Tests			
<i>Campylobacter</i> spp. in chicken			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in chicken			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in smoked fish			
<i>Salmonella</i> spp. in chicken	M249d071		
<i>Salmonella</i> spp. in pork			
<i>Vibrio parahaemolyticus</i> in fish		M250d21	



Milk Cheese and Egg Matrices

Enumeration Tests	Distribution Number and Date of Dispatch		
	249 27/01/20	250 24/02/20	251 30/03/20
Aerobic Plate Count in milk powder			M251e09
<i>Bacillus cereus</i> / Aerobic Plate Count in milk powder			
<i>Clostridium perfringens</i> in milk powder	M249e06		
Coagulase Positive Staphylococci in milk powder [1]			
Coliforms in milk powder		M250e18	
Enterobacteriaceae in milk powder			
<i>Escherichia coli</i> in milk powder			
Detection Tests			
<i>Campylobacter</i> spp. in milk powder			
<i>Escherichia coli</i> O157:H7 [3] in cheese			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp. in milk powder			M251d02
<i>Listeria monocytogenes</i> in soft cheese			
<i>Salmonella</i> spp. in egg (dried)			M251d071
<i>Salmonella</i> spp. in milk powder			M251d072

[1] These tests typically employ *S. aureus* as the Coagulase Positive Staphylococcus organism but Fapas® reserves the right to use an alternative Coagulase Positive Staphylococcus at any time.

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Fruit and Salad Matrices

Enumeration Tests	Distribution Number and Date of Dispatch		
	249 27/01/20	250 24/02/20	251 30/03/20
Enterobacteriaceae in salad			
<i>Alicyclobacillus</i> spp. in fruit juice		M250e22	
Yeasts in fruit juice			
Detection Tests			
<i>Escherichia coli</i> O157:H7 [3] in salad			M251d11
<i>Escherichia coli</i> O157:H7 [3] in sprouting seeds and lettuce			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp in mixed vegetables			
<i>Salmonella</i> spp. in salad			
<i>Salmonella</i> spp. in sprouting seeds and lettuce			

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has *eae* genes but the genes for VT1/VT2 (STX1/STX2) are absent.



Miscellaneous Matrices

Enumeration Tests	Distribution Number and Date of Dispatch		
	249 27/01/20	250 24/02/20	251 30/03/20
Aerobic Plate Count on cotton swab			
<i>Bacillus cereus</i> in cooked rice	M249e12		
<i>Clostridium</i> spp. in infant formula			
Yeasts and Moulds in flour		M250e15	
Detection Tests			
<i>Cronobacter (Enterobacter) sakazakii</i> in infant formula [4]		M250d20	
<i>Salmonella</i> spp. in infant formula			
<i>Escherichia coli</i> O157:H7 [3] in flour			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp in Ready to Eat (RTE) meal			
<i>Listeria monocytogenes</i> / <i>Listeria</i> spp.on sponge swabs [5]		M250d02	
<i>Salmonella</i> spp. in animal feed			
<i>Salmonella</i> spp. in chocolate	M249d072		
<i>Salmonella</i> spp. in chocolate powder			
<i>Salmonella</i> spp. in ground pepper			
<i>Salmonella</i> spp. in herbs			
<i>Salmonella</i> spp. on sponge swabs [5]		M250d07	

[3] The strain of *Escherichia coli* O157:H7 used in our samples is atoxigenic, i.e. it does not produce a toxin. It has eae genes but the genes for VT1/VT2 (STX1/STX2) are absent.

[4] For this detection test participants will receive 2 samples each equivalent to 10 g.

[5] For this detection test participants will receive 2 sponge swabs.



APPENDIX 3: ORDERING INFORMATION – FOOD MICROBIOLOGY

PLEASE NOTE: The information in this Appendix does *not* constitute our Standard Terms & Conditions for Proficiency Testing Schemes, which are available on our website at fapas.com/terms-conditions.

Notes:

- a) Quantity discounts are automatically applied to your order and a breakdown is available on our website, fapas.com/discounts.
- b) Carriage costs will be applied to your order at the point of checkout.
- c) If you cancel an order, then Section 6.3 of our Standard Terms & Conditions for Proficiency Testing Schemes applies:

If the Customer cancels an order after 14 days of placing it and the Proficiency Test is due to take place in 30 days or more, 50% of the Fee shall be paid by the Customer. If a Customer has paid in advance, Fera shall refund 50% of the Fee. If the Customer cancels an order after 14 days and the Proficiency Test is due to take place within the next 30 days, the full Fee shall be paid by the Customer and/or no refund shall be issued.
- d) The dispatch date shown is our planned dispatch date. You will be notified by email if any of the tests you order are delayed or cancelled for any reason.
- e) Registrations for proficiency tests in all the Fapas® Programme's close either 14 or 28 days before the dispatch date of the test, refer to the relevant section above for exact details.
- f) The approximate quantity of test material we will supply is given for each test. If your method needs more material, please indicate the number of extra test materials you require. There is a charge for additional test materials.
- g) The purchase of extra test materials does not entitle you to receive an extra performance assessment in the report. You must place multiple orders for the test if you require this service. You may submit multiple results for a test, nominating one to appear in the assessment report, the others will be available for trending in Fapas® Charts.

Additional notes:

i. Dispatch

- a) *If appropriate* samples are packed in insulated boxes together with ice blocks to prevent them undergoing large temperature fluctuations in transit but are they not transported in refrigerated vehicles. No dry ice will be used in dispatch. Even if these samples do not arrive refrigerated they will still be acceptable for use as they will have been chilled for the majority of their journey.
- b) Please contact us if your postal dispatch has not arrived within 10 working days.
- c) The tracking number of your courier consignment will be sent to the email address given for the sample contact and the delivery contact for that test. The message will indicate how to track the consignment.
- d) Airway Bill Numbers are also available from the participant's secure pages on the Fapas® website.
- e) It is the responsibility of the customer to monitor the progress of their courier dispatch.
- f) Our microbiology packages are shipped as biological substances, category B (UN3373).



ii. Import / Customs

- a) We are not responsible for damage or loss of test materials due to problems in customs or for import fees.
- b) If you require special import permits for importing certain types of test material into your country, please inform us at least 3 weeks prior to dispatch date. There is a charge for this service.
- c) Phytosanitary certificates can be provided for plant-based products where appropriate. There is a charge for this service. Orders for phytosanitary certificates must be placed at least three weeks before the start date of the relevant test.

iii. Results

- a) Details of the results submission date can be viewed in the test instruction letters.
- b) Result submission will only be allowed via the Fapas® website.

iv. Reports

- a) The cost of the test includes access to an electronic copy of the report for the person placing the order and designated sample contact.
- b) Reports are normally available on our website within 25 days of the closing date of the test.
- c) The reports are in PDF format and are secured by a digital signature.
- d) The cost of a copy of the report (PDF format) on a test in which you did *not* participate is £38 GBP.



APPENDIX 4: AGENT INFORMATION

Fapas® has a network of Agents to help you locally. Please contact your nearest office:

<p>Argentina Phone: +5411-4701-6262 E-mail: c.daiutolo@r-biopharmlat.com.ar</p>	<p>Israel Phone: +972572400503 E-mail: assafy@eldan.biz</p>	<p>Spain Phone: +34 91.504.66.02 E-mail: info@setelsl.com</p>
<p>Armenia Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Italy Phone: + 39 02 89540225 E-mail: giovanna.lampis@starecotronics.it</p>	<p>Switzerland Phone: +49 40 49294 2930 E-mail: fapas@eurofins.de</p>
<p>Austria Phone: +49 40 49294 2930 E-mail: fapas@eurofins.de</p>	<p>Japan Phone: +81 3 5627 8150 E-mail: fapas.info@cscjp.co.jp</p>	<p>Taiwan Phone: +886228484509 E-mail: biotic@ms64.hinet.net</p>
<p>Australia Phone: +61 (0)3 9416 0093 E-mail: info@biosys.com.au</p>	<p>Kazakhstan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Tajikistan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>
<p>Azerbaijan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Korea Phone: +81 2529 2282 E-mail: kisan@kisanbio.com</p>	<p>Thailand Phone: +6628817404 E-mail: sales@scientificsupply.co.th</p>
<p>Belgium Phone: +32 2 736 62 18 E-mail: contact@bio-line.eu</p>	<p>Kyrgyzstan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Turkey Phone: + 90 232 464 8006 E-mail: edip@sincer.com.tr</p>
<p>Belarus Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Latvia Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Turkmenistan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>
<p>China (Shanghai): Phone: + 86 13311603693 E-mail: jan_shen2001@aliyun.com</p>	<p>Lithuania Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Ukraine Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>
<p>China (Beijing) Phone: +86-10-88026887 E-mail: leifh@clovertex.com</p>	<p>Malaysia Phone: +603-5122 5108 E-mail: jccw76@yahoo.com</p>	<p>Uzbekistan Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>
<p>Egypt Phone: +202 0114 15 215 26 E-mail: pts@targetls.net</p>	<p>Moldova Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>United Arab Emirates Phone: +971-4-2852211 E-mail: salesexecutive@bdhme.com</p>
<p>Estonia Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Pakistan Phone: +92 42 3733 9116 E-mail: saq@swissconsulting.co</p>	<p>United States of America Phone: +18507278107 E-mail: orders@biofronttech.com</p>
<p>France Phone: +33 478643200 E-mail: k.irgui@r-biopharm.fr</p>	<p>Philippines Phone: +6324410430 E-mail: r.alaba@fil-anaserve.com</p>	<p>Vietnam Phone: +84 8 3726 0440 E-mail: fapas@nghiphu.com</p>
<p>Georgia Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	<p>Poland Phone: +48 61 868 6272 Email: badania@nuscana.pl</p>	<p>United Kingdom Fapas® Fera Science Ltd. (Fera) National Agri-Food Innovation Campus Sand Hutton York YO41 1LZ UK Phone: +44 (0)1904 462100 E-mail: info@fapas.com Web: fapas.com</p>
<p>Germany Phone: +49 40 49294 2930 E-mail: fapas@eurofins.de</p>	<p>Portugal Phone: +351 22 996 20 69 E-mail: artur.melo@ambifood.com</p>	
<p>Greece Phone: +30-210-2934745 E-mail: info@qacs.gr</p>	<p>Russia Phone: +7 495 707 28 68 E-mail: pt@stylab.ru</p>	
<p>Indonesia Phone: +62 811824811 E-mail: marketing@rnd.co.id</p>	<p>South Africa Phone: +27114444330 E-mail: jacqueline@aecam.co.za</p>	

