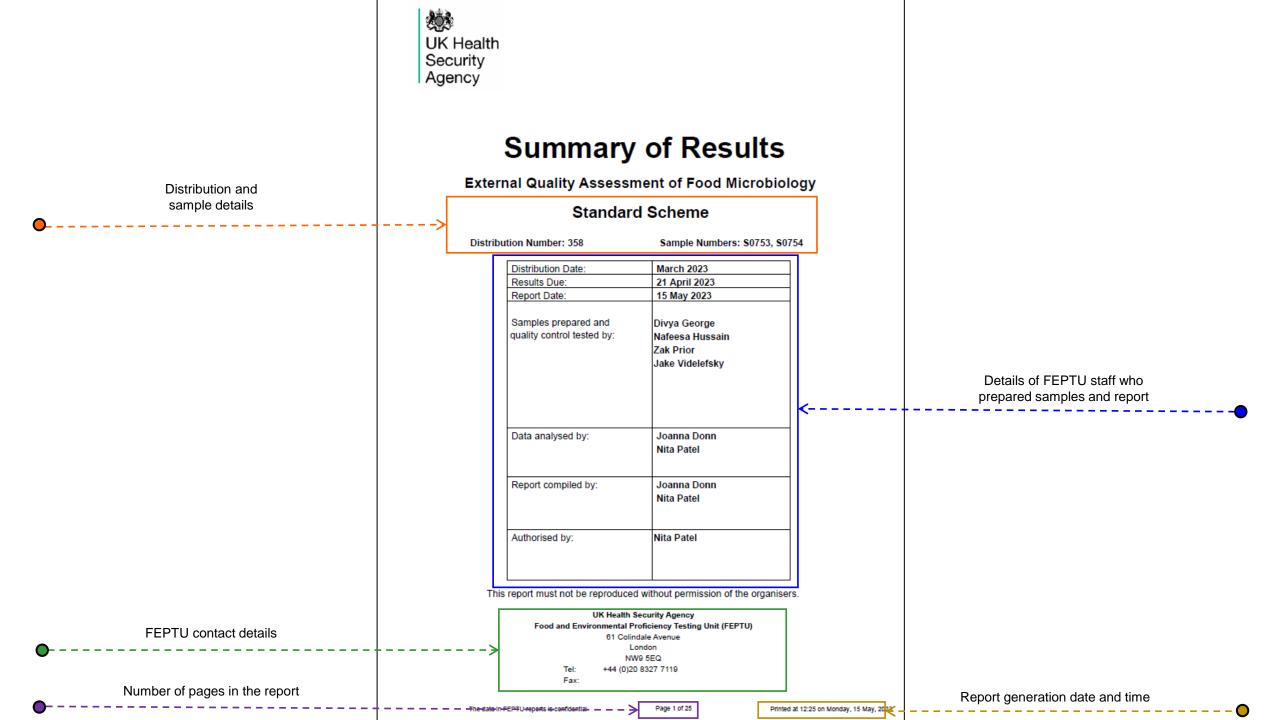


## Annotated report for standard scheme (example)





Web links to key documents on our website	For further information on the scheme please refer to: Scheme Guide: <u>https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scheme-guide</u> Guide to Scoring and Statistics:	
	$\text{bit for Schward gave mixed to a schward gave mixed to a schward gave for the schward gave will be schward gave with the schward gave with the schward gave will be schward gave with the schward gave with the schward gave will be schward gave will be schward gave with the schward gave will be schward gave with the schward gave will be schward gave will be schward gave will be schward gave with the schward gave will be schward gave with the schward gave will be schward gave with the schward gave will be schward gave will be schward gave with the schward gave will be schward gave with the schward gave will be schward $	
	The opt-value expresses the acceptable difference between the individual participant's result and the participants' consensus median. The opt-value used for calculating z-scores for all parameters in the Standard Scheme is 0.35. A guide to interpreting z-scores follows, although laboratories must interpret their scores in the context of their own laboratory situation:	Guidance on z-scores
	z = -1.99 to +1.90     satisfactory       z = -2 to -2.99 or +2 to +2.99     questionable       z= < -3.00 or > + 3.00     unsatisfactory	
	It is usually recommended that z-scores exceeding +/-2 are investigated to establish the possible cause. As a general rule, UKHSA recommends that all questionable and unsatisfactory results are investigated .	
	FEPTU Quality control: To demonstrate homogeneity of the sample, a minimum of 10 freeze-dried vials, selected randomly from a batch, are tested in duplicate for parameters requiring enumeration and 10 freeze-dried vials are examined for pathogen detection.	
Information on quality	To demonstrate stability of the sample, a minimum of six vials, selected randomly from a batch, are examined throughout the distribution period, either for enumeration or pathogen detection.	
control done in the FEPTU laboratory	FEPTU results are determined using methods based on ISO methods and are included in the 'intended results' letters which provide guidance for participants regarding the assigned values.	
•>	The FEPTU results are used for guidance in the preliminary intended results notification, letters are posted on the website immediately after every distribution; electronic notification of their availability is sent to all participants	
	Refer to section 17.0 of the Scheme Guide if you have experienced difficulties with any of the examinations . https://www.gov.uk/government/publications/food-and-water-proficiency-testing-scheme-scheme-guide	
	All participants are reminded that reporting an incorrect or incomplete identification of pathogens from food samples could have serious public health implications. Similarly, the levels of micro-organisms reported in the sample may affect the subsequent outcome for the product.	
	Participants are reminded that the purpose of scoring is to draw attention to incorrect or outlying results. The results, as summarised in the performance assessment sheet included in this report, provide a more effective indication of on-going problems with food microbiology examinations.	
	The bar charts in this report are compiled using the processes outlined in the Guide to Scoring Systems and Statistics for the allocation of UKHSA scores. Z-scores are included on the sample-specific pages only; the relevant sections will be left blank if a z-score does not apply.	
	Please contact FEPTU staff for advice and information:         Repeat samples       Carmen Gomes or Kermin Daruwalla         Data Analysis       Nita Patel	Details of FEPTU key personnel and accreditation details
	Microbiological advice     Nita Patel or Zak Prior     Email:       General comments and complaints     Nita Patel or Zak Prior     FEPTU's website       Scheme consultants     Melody Greenwood       Scheme Co-ordinator     Nita Patel	¢C
	Scheme Co-ordinator         Nita Patel           Accreditation: UKHSA Food EQA Scheme for Standard is accredited by the United Kingdom Accreditation Service (UKAS) to ISO/IEC 17043:2010.         UKAS UNITED TRUE UNITED TRUE	

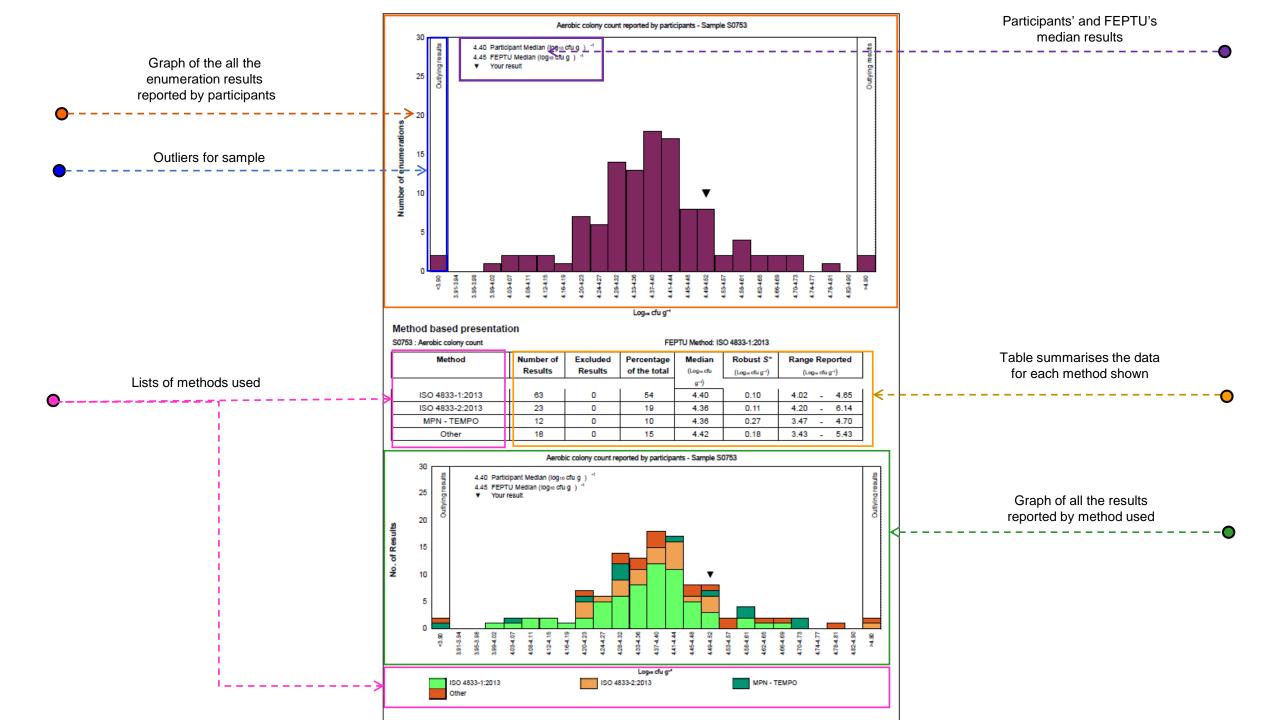
Sample number and contents	>	Sample: S0753 Contents: Listeria innocua (2.6x10° per page 19, Salmonella Indiana, (2.0x10°) (wild strain), Lactoo All levels are presented as colonf forming u Expected Results: Examination Listeria spp. (including Lmond) Lmonocytogenes Salmonella spp.	14,12:x:1,7 (70 per ooccus lactis (2.4x10 nits (cfu) per ml rec Exp Detr	r disc) (wild strain) - see com )*) (wild strain) , <i>Escherichia</i>	nment on page	19, Clostridium bilermenta			Z-score 0 <del>0</del>		Your results
		Clostridium perfringens	<	10 cfu g ~1	Total	<10 Pathogen Score	10 out o	of 10	100%		
		Aerobic colon¶ count	7.9x10 <sup>3</sup>	- 7.9x10 <sup>+</sup> cfu g <sup>-1</sup>	3200	00 (4.51 log <sub>10</sub> )	2		0.30	k	
		Escherichia coli	5.7x10 <sup>2</sup>	5.7x10 <sup>3</sup> cfu g <sup>-1</sup>	120	0 (3.08 log <sub>10</sub> )	2		-0.52		ur UKHSA scores and z-scores
		Examination		Result 2		Z-score	•				
		Listeria spp. (including L.mond)		Detected		0					
		L.monocytogenes		Detected 0		0					
		Salmonella spp.		Detected	ed						
Additional results and z-scores information.		Clostridium perfringens		<10							
		Aerobic colon∮ count		19000 -0.35							
•	>	Escherichia coli		890		-0.89					
		Examination		Result 3		Z-score	•				
		Listeria spp. (including Lmond)		Detected 0							
		L.monocytogenes		Detected		0					
		Salmonella spp.		Detected							
		Clostridium perfringens		<10							
		Aerobic colon¶ count		33000 0.34							
		Escherichia coli		1900		0.05					
		Listeria spp. (including L.mono)									
		Total participants reporting for <i>Listeria</i> spp. (including <i>L.mono</i> ) 105				105					
		Participants reporting correctly				101 (96%)			]		
		L.monocytogenes									
		Total participants reporting for <i>L.monocytogenes</i> 117									
		Participants reporting correctly 96 (82%)						7			
										_	

Detailed performance information on this parameter

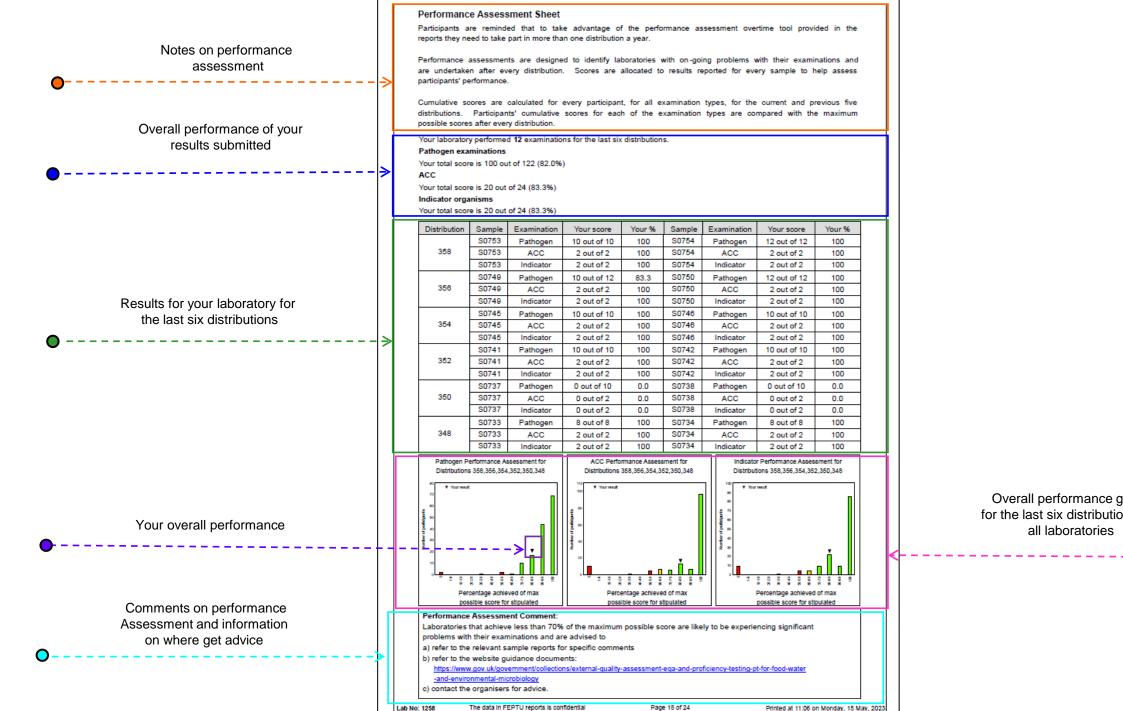
0

Salmonella spp.	
Total participants reporting for Salmonella spp.	118
Participants reporting correctly	92 (78%)
Clostridium perfringens	
Total participants reporting for Clostridium perfringens	85
Participants reporting correctly	75 (88%)
Aerobic colony count	
Total participants reporting for Aerobic colony count	116
Assigned value (participants' median)	2.5x10 <sup>4</sup> cfu g <sup>-1</sup> (4.4 log <sub>10</sub> )
Uncertainty of assigned value (U(Xpt)=log <sub>10</sub> cfu g <sup>-1</sup> )	0.01
No. of outlying counts	4 (2 low / 2 high)
Participants mean	2.4x10 <sup>4</sup> cfu g <sup>-1</sup> (4.38 log <sub>10</sub> )
Standard deviation of participants results *	0.13 log <sub>10</sub> cfu g <sup>-1</sup>
FEPTU QC median	2.8x10 <sup>4</sup> cfu g <sup>-1</sup> (4.45 log <sub>10</sub> )
Escherichia coli	
Total participants reporting for Escherichia coli	117
Assigned value (participants' median)	1.8x10 <sup>3</sup> cfu g <sup>-1</sup> (3.26 log <sub>10</sub> )
Uncertainty of assigned value (U(Xpt)=log <sub>10</sub> cfu g <sup>-1</sup> )	0.02
No. of outlying counts	7 (4 low / 3 high)
Participants mean	1.8x10 <sup>3</sup> cfu g <sup>-1</sup> (3.25 log <sub>10</sub> )
Standard deviation of participants results *	0.16 log₀ cfu g⁻¹
FEPTU QC median	2.0x10 <sup>3</sup> cfu g <sup>-1</sup> (3.3 log <sub>10</sub> )
Total sent samples	146
Non-returns	2
Not examined	16
The fixed standard deviation value ( $\sigma_{ m pt}$ value) used for calculation of the z-scores is 0.35 for all parameters.	

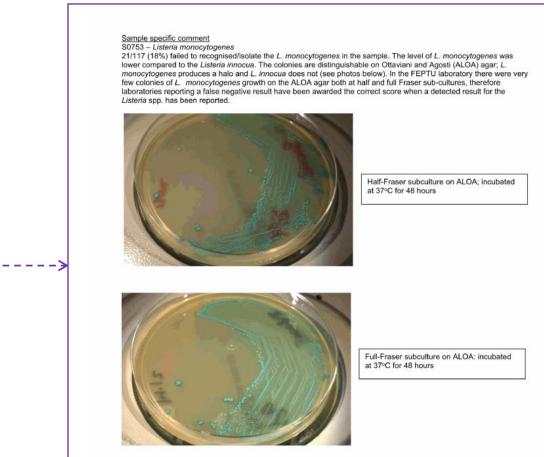
Explanation of symbols in the table



	Aerobic colon∮ count Method	Aerobic colon∮ count Media	Aerobic colon∮ count Incubation	Count reported	Count censored values		
	ISO 4833-1:2013	Milk plate count agar	30°C/72h	1	0	]	
	ISO 4833-1:2013	Petrifilm TM	30°C/48h	1	0	]	
	ISO 4833-1:2013	Petrifilm TM	30°C/72h	1	0	]	
	ISO 4833-1:2013	Petrifilm TM	Other	1	0	]	
	ISO 4833-1:2013	Plate count agar	30°C/48h	7	0		
	ISO 4833-1:2013	Plate count agar	30°C/72h	61	0	]	
Method used	ISO 4833-1:2013	Plate count agar	Other	1	0		
	ISO 4833-1:2013; ISO 4833-2:2013	Plate count agar	30°C/48h; 30°C/72h	<	1	Incubation information	
	ISO 4833-1:2013; ISO 4833-2:2013	Plate count agar	30°C/72h	0	0		
	ISO 4833-2:2013	Petrifilm TM; Plate count agar	30°C/48h	0	0	1	
	ISO 4833-2:2013	Plate count agar	30°C/48h	13	0	1	
	ISO 4833-2:2013	Plate count agar	30°C/72h	10	0	Count of results by method, media and	
Media used	ISO 4833-2:2013; ISO 4833-1:2013	Plate count agar	30°C/48h	0	0	incubation condition	
	ISO 4833-2:2013; ISO 4833-1:2013	Plate count agar	30°C/72h	0	0	Note:	
	MPN - TEMPO	Other	30°C/48h	7	0	The count shown in the 'Count	
	MPN - TEMPO	Other	30°C/72h	1	0	censored values' column includ	
	MPN - TEMPO	Other	Other	4	0	data from those laboratories that	
	Other	Other	30°C/72h	1	0	<ul> <li>reported:</li> <li>a censored value</li> </ul>	
	Other	Other	37°C/24h	1	0	<ul> <li>a result reported as detected</li> </ul>	
	Other	Other	Other	1	0	not detected	
	Other	Petrifilm TM	30°C/48h	1	0	• method data with no results	
	Other	Petrifilm TM	Other	2	0	reported	
	Other	Plate count agar	30°C/48h	3	0	1	
	Other	Plate count agar	30°C/72h	4	0	1	
	Other	Plate count agar	Other	6	0	11	
	Other; ISO 4833-1:2013; ISO 4833-2:2013	Plate count agar, Petrifilm TM; Other	30°C/72h	0	1	1	



Overall performance graph for the last six distributions for



Sample specific comment

## General comments

Participants are reminded if you do not examine a specific parameter you must return your results as 'Not examined' as this impacts the overall scores awarded.

## General comments on methods:

General distribution comment:

Participants that did not provide information on the method and testing conditions, their data is not included in the method graphs and tables. This information is useful; therefore, participants are encouraged to complete these details.

Method based presentation tables for enumeration results; Participants are advised if less than 10 laboratories report an enumeration result for a method, no data is shown for the Median, Robust SD and the Range Reported. Numbers shown in the 'Excluded Results' column are laboratories that reported a censored value.