

Summary of Results

External Quality Assessment of Food Microbiology

Public Health Scheme

Distribution Number:

PH5

Sample Numbers:

PH0025, PH0026, PH0027, PH0028, PH0029, PH0030

Distribution Date: Results Due: Report Date: Samples prepared and QC tested by:	November 2014 12 December 2014 18 December 2014 Morolake Adedeji Stephanie Foster Thamayanthy Ramesh Aneta Stranc
Data Analysed by:	Anitha Tallam Manchari Rajkumar Nita Patel
Report Compiled by:	Manchari Rajkumar Nita Patel
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 Public Health England

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If you require general information about the	scheme please refer to:	
Scheme Guide:		
https://www.gov.uk/government/publications/for For more specific information about	ood-and-water-proficiency-testing-schemes-sche	-
analysing your results for the proficiency tes		ns, statistics, and guidance on
Guide to Scoring and Statistics:		
https://www.gov.uk/government/publications/fc General guidance for z-scores:	ood-and-water-proficiency-testing-schemes-scor	ing-systems-and-statistics
Participants' enumeration results are conve	rted into z-scores using the following formu	la:
	(expressed as a log 10 value)	
	rticipants' consensus median (expressed a deviation for the examination (calculated by	• //
The σ -value expresses the acceptable consensus median. The σ -value used is 0.35. A guide to interpreting z-score of their own laboratory situation.	for calculating z-scores for all parame	eters in the Public Health Scheme
z = -1.99 to +1.99 satisfac z = -2 to -2.99 or +2 to +2.99 question z = < -3.00 or > + 3.00 unsatisfac	nable	
It is usually recommended that z-score general rule, PHE recommends that all que	s exceeding ±2 are investigated to est	
FEPTU Quality Control: To demonstrate ho selected randomly from a batch, are tested i LENTICULE discs are examined for pathoge	n duplicate for parameters requiring enume	
To demonstrate stability of the sample, a min are examined throughout the distribution per		
FEPTU results are determined using method letters which provide guidance for participan		in the 'intended results'
The FEPTU results are used for guidance in the website immediately after every distribut		
If you experience difficulties with any of the https://www.gov.uk/government/publication	examinations please refer to section 17.0 o s/food-and-water-proficiency-testing-schemes-s	
All participants are reminded that repo swab samples could have serious pub in the sample may affect the subsequent ou	lic health implications. Similarly, the	
Please contact FEPTU staff for advice and	information:	
Repeat samples	Carmen Gomes or Kermin Daruwalla	Tel: +44 (0)20 8327 7119
Data Analysis	Manchari Rakumar or Nita Patel	Fax: +44 (0)20 8200 8264
Microbiological advice	Nita Patel or Morolake Adedeji	Email: foodeqa@phe.gov.uk
General comments and complaints	Nita Patel or Morolake Adedeji	
Scheme consultants	Nicola Elviss and Melody Greenwood	
Scheme Co-ordinator	Nita Patel	
Outbreak details: On the morning of 3 Nov number of ill prisoners complaining of diard informed of the situation on the same day. made aware; currently 35 prisoners are stil were asked about which menu option they All food is centrally prepared in a large kitcl seven days in the freezer. Food samples w swabs were collected from various areas u Accreditation: PHE Public He Service (UKAS) to ISO/IEC G	hoea and/or abdominal cramps. The Local The onset of the symptoms was 24 hours b I unwell. The menus at the prison were revie had eaten on the preceding 7 days. Then unit and a portion of each menu item is ere collected for microbiological examination sed to serve the food.	Health Authority were efore management were ewed and the prison retained for a period of on and a number of
0006		

Food Sample: PH0025

Sample type: Chicken stir fry containing chicken and mixed vegetables in a sweet and sour sauce

Request: Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

Contents:

Clostridium perfringens (20) (wild type strain), Klebsiella pneumoniae (2.8x10²) (wild type strain), Micrococcus varians

(10³) (wild type strain)

Expected Results:

lostridium perfringens bic Colony Count (30°C)			assessment		
bic Colony Count (30°C)	1.2x10¹ - 1.3x10² cfu g ⁻¹		N/A	N/A	
	2.8x10³ - 2.8x10⁴ cfu g ⁻¹		N/A	N/A	
Enterobacteriaceae	9.4x10¹ - 9.5x10² cfu g ⁻¹		N/A	N/A	
Escherichia coli	<10 cfu g -1		N/A	N/A	
mance:			•		
ns					
Total number of participants examining the sa	ample for Clostridium perfringens	9	9		
Participants reporting correctly		:	5		
Total participants reporting for Clostridium per	erfringens	:	5		
Assigned value (participants' median)			4.0x10¹ cfu g ⁻¹ (1.6 log₁₀)		
Participants reporting a low censored value			4		
	g ⁻¹)	(0.10		
		4	4.1x10¹ cfu g ⁻¹ (1.62 log₁₀)	
FEPTU QC median					
t (30°C)					
	ample for Aerobic Colony Count (30°C)	,	8		
	- -1)				
	J)				
FEFTO QC median		•	5.2x10° ciu g (5.91 l0g10)	
	ample for <i>Enterobacteriaceae</i>				
			9		
Total participants reporting for Enterobacteria	aceae	9	9		
Assigned value (participants' median)		:	3.0x10 ² cfu g ⁻¹ (2.48 log ₁₀)		
Uncertainty of assigned value (Ux= log10 cfu g	g ⁻¹)		0.06		
Participants' mean			3.1x10 ² cfu g ⁻¹ (2.49 log ₁₀))	
*Standard deviation of participants' results					
FEPTU QC median		:	2.8x10 ² cfu g ⁻¹ (2.45 log ₁₀)	
Total number of participants examining the sa	ample for Escherichia coli	9	9		
Participants reporting correctly		9	9		
			11		
			2		
			0		
			-		
		s section.			
	Participants reporting a low censored value Uncertainty of assigned value (Ux= log ₁₀ cfu g Participants' mean *Standard deviation of participants' results FEPTU QC median t (30°C) Total number of participants examining the sa Participants reporting correctly Total participants reporting for Aerobic Colon Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁₀ cfu g Participants' mean *Standard deviation of participants' results FEPTU QC median Total number of participants examining the sa Participants reporting correctly Total participants reporting for <i>Enterobacteria</i> Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁₀ cfu g Participants reporting for <i>Enterobacteria</i> Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁₀ cfu g Participants' mean *Standard deviation of participants' results FEPTU QC median Total number of participants examining the sa Participants' mean *Standard deviation of participants' results FEPTU QC median Total number of participants examining the sa Participants reporting correctly	Participants reporting a low censored value Uncertainty of assigned value (Ux= log ₁ o cfu g ⁻¹) Participants' mean *Standard deviation of participants' results FEPTU QC median t(30°C) Total number of participants examining the sample for Aerobic Colony Count (30°C) Participants reporting correctly Total participants reporting for Aerobic Colony Count (30°C) Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁ o cfu g ⁻¹) Participants' mean *Standard deviation of participants' results FEPTU QC median Total number of participants examining the sample for <i>Enterobacteriaceae</i> Participants reporting for <i>Enterobacteriaceae</i> Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁ o cfu g ⁻¹) Participants reporting for <i>Enterobacteriaceae</i> Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁₀ cfu g ⁻¹) Participants reporting for <i>Enterobacteriaceae</i> Assigned value (participants' median) Uncertainty of assigned value (Ux= log ₁₀ cfu g ⁻¹) Participants' mean *Standard deviation of participants' results FEPTU QC median Total number of participants examining the sample for <i>Escherichia coli</i> Participants reporting correctly Total number of participants examining the sample for <i>Escherichia coli</i> Participants reporting correctly total number of participants examining the sample for <i>Escherichia coli</i> Participants reporting correctly deviation value (<i>σ</i> value) used for calculation of the z-scores is 0.35 for all parameters. n median absolute deviation about the participants' median (MAD).	Participants reporting a low censored value 4 Uncertainty of assigned value (Ux= log ₄₀ cfu g ⁻¹) 4 Participants' mean 4 'Standard deviation of participants' results 6 EPTU QC median 4 (Go°C) 7 Total number of participants examining the sample for Aerobic Colony Count (30°C) 7 Participants reporting correctly 7 Total participants reporting correctly 7 Total participants reporting correctly 7 Participants reporting correctly 7 Participants' mean 7 *Standard deviation of participants' results 7 FEPTU QC median 7 Total number of participants examining the sample for <i>Enterobacteriaceae</i> 7 Participants reporting correctly 7 Total participants reporting for <i>Enterobacteriaceae</i> 7 Participants mean 7 *Standard deviation of participants' results 7 Total number of participants' median 7 Uncertainty of assigned value (UX= log ₄₀ cfu g ⁻¹) 7 Participants mean 7 *Standard deviation of participants' results 7 Total participants' median 7 Uncertainty of assigned value (UX= log ₄₀ cfu g ⁻¹) 7 Participants' mean 7 *Standard deviation of participants' results 7 FEPTU QC median 7 Total number of participants reporting to <i>Enterobacteriaceae</i> 7 Participants mean 7 *Standard deviation of participants' results 7 FEPTU QC median 7 Total number of participants examining the sample for <i>Escherichia coli</i> 7 Participants reporting correctly 7 Participants re	Participants reporting a low censored value 4 Uncertainty of assigned value (Ux= log ₁ of u g ⁻¹) 0.10 Participants' mean 4.1x10° cfu g ⁻¹ (1.62 log ₂ , cfu g ⁻¹) Standard deviation of participants' results 1.0x10° cfu g ⁻¹ (1.10g ₂) rEPTU QC median 1.0x10° cfu g ⁻¹ (1.10g ₂) t(0PC) 8 Total number of participants examining the sample for Aerobic Colony Count (30°C) 8 Assigned value (participants median) 8.8x10° cfu g ⁻¹ (3.94 log ₂ Uncertainty of assigned value (Ux= log ₂ cfu g ⁻¹) 0.06 Participants' mean 9.1x10° cfu g ⁻¹ (3.94 log ₂ 'Standard deviation of participants' results 0.14 log ₂ cfu g ⁻¹ (3.94 log ₂ 'Standard deviation of participants' results 0.14 log ₂ cfu g ⁻¹ (3.94 log ₂ 'Standard deviation of participants' results 0.14 log ₂ cfu g ⁻¹ (3.94 log ₂ 'Standard deviation of participants results 0.14 log ₂ cfu g ⁻¹ (3.94 log ₂ Total number of participants examining the sample for <i>Enterobacteriaceaae</i> 9 Participants reporting for <i>Enterobacteriaceaae</i> 9 Participants reporting for <i>Enterobacteriaceae</i> 9 Assigned value (participants' median) 3.0x10° cfu g ⁻¹ (2.48 log ₂ Uncertainty of assigned value (Ux= log ₂ cfu g ⁻¹) 0.06 Participants reporting correctly 9	

Food Sample: PH0026

Sample type: Egg fried rice

Request: Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

Contents:

Bacillus subtilis (16) (wild type strain), Citrobacter braakii (<10) (wild type strain), Lactobacillus plantarum (36) (wild type

strain), Staphylococcus xylosus (45) (NCIMB 13636)

Expected Results:

	Examination	Expected Result	Your Result	Score for performance assessment	Z-score
(Clostridium perfringens	<10 cfu g ⁻¹		N/A	N/A
Aer	Aerobic Colony Count (30°C) 2.9x10' - 4.1x10² cfu g ⁻¹			N/A	N/A
Enterobacteriaceae <10 cfu g ⁻¹			N/A	N/A	
Escherichia coli <10 cfu g ⁻¹			N/A	N/A	
Comments on Perfo	ormance:			1 1	
Clostridium perfring	gens				
•	Total number of participants examining the s	ample for <i>Clostridium perfringens</i>	8	1	
	Participants reporting correctly		8		
Aerobic Colony Cou	 unt (30°C)				
Total number of participants examining the sample for Aerobic Colony Count (30°C)			8	i	
Participants reporting correctly			5		
Total participants reporting for Aerobic Colony Count (30°C)			5		
Assigned value (participants' median)			1	.1x10² cfu g ⁻¹ (2.04 log₁₀)	
	Participants reporting a low censored value			3	
	Uncertainty of assigned value (Ux= log₁₀ cfu	g ⁻¹)	0.16		
	Participants' mean		1.4x10² cfu g ⁻¹ (2.13 log₁₀)		
	*Standard deviation of participants' results		0.29 log₁₀ cfu g ⁻¹		
	FEPTU QC median		5	5.0x10¹ cfu g ⁻¹ (1.7 log₁₀)	
Enterobacteriaceae	e				
	Total number of participants examining the s	ample for Enterobacteriaceae	g	1	
	Participants reporting correctly		5	i	
Escherichia coli					
	Total number of participants examining the s	ample for <i>Escherichia coli</i>	g	1	
Participants reporting correctly		g			
Total sent samples				11	
Not examined			2	2	
Non returns			()	
The fixed standar	rd deviation value (σ value) used for calculation of t	the z secres is 0.35 for all parameters			
The lived standard					

* Robust SD based on median absolute deviation about the participants' median (MAD).

Note: enumeration parameters with less than 10 participants results are not scored. Please see explanation in the comments section.

Food Sample: PH0027

Sample type: Chicken satay cooked early morning in a sticky sauce containing peanuts, soy sauce, ginger and lime juice **Request:** Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

Contents:

Clostridium perfringens (80) (wild type strain), Pseudomonas aeruginosa (47) (wild type strain), Staphylococcus

epidermidis (43) (wild type strain)

Expected Results:

	Examination	Expected Result	Your Result	Score for performance assessment	Z-score	
C	Clostridium perfringens	1 - 3.4x10² cfu g ⁻¹		N/A	N/A	
Aero	Aerobic Colony Count (30°C) 4.4x10 ¹ - 4.4x10 ² cfu g ⁻¹			N/A	N/A	
	Enterobacteriaceae	<10 cfu g ⁻¹		N/A	N/A	
Escherichia coli <10 cfu g -1				N/A	N/A	
Comments on Perfo	rmance:	-				
Clostridium perfringe	ens					
	Total number of participants examining the	sample for Clostridium perfringens		9		
	Participants reporting correctly			7		
	Total participants reporting for <i>Clostridium</i>	perfringens		7		
	Assigned value (participants' median)			2.4x10 ¹ cfu g ⁻¹ (1.38 log ₁₀)	
	Participants reporting a low censored value			2		
	Uncertainty of assigned value (Ux= log10 cft	ug -1)		0.27		
	Participants' mean	- /		4.2x10¹ cfu g ⁻¹ (1.63 log₁₀)		
*Standard deviation of participants' results				0.58 log₁₀ cfu g ⁻¹		
FEPTU QC median				1.2x10 ² cfu g ⁻¹ (2.08 log ₁₀)		
Aerobic Colony Cou	nt (30°C)					
· · · · · · , · · ·	Total number of participants examining the	sample for Aerobic Colony Count (30°C)		8		
	Participants reporting correctly			6		
	Total participants reporting for Aerobic Colo	ny Count (30°C)		6 1.4x10² cfu g ⁻¹ (2.15 log₁₀) 2 0.08 1.3x10² cfu g ⁻¹ (2.12 log₁₀)		
	Assigned value (participants' median)					
	Participants reporting a low censored value					
	Uncertainty of assigned value (Ux= log ₁₀ cfu					
	Participants' mean	- 9 /				
	*Standard deviation of participants' results		0.16 log₁₀ cfu g ⁻¹		910/	
	FEPTU QC median			1.0x10 ² cfu g ⁻¹ (2 log ₁₀)		
Enterobacteriaceae						
Interopacteriaceae	Total number of participants even ining the	comple for Entersheaterizeses		9		
	Total number of participants examining the Participants reporting correctly	sample for Enterobactenaceae		9		
				9		
Escherichia coli				•		
	Total number of participants examining the	sample for Escherichia coli		9		
	Participants reporting correctly			9		
Fotal sent samples				11		
Not examined				2		
on returns						

* Robust SD based on median absolute deviation about the participants' median (MAD).

Note: enumeration parameters with less than 10 participants results are not scored. Please see explanation in the comments section.

Swab Sample: PH0028

Sample type: Random area swab from a mincemeat grinding machine

Request: Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

Contents:

Clostridium perfringens (3x10²) (wild type strain), Enterobacter cloacae (5x10³) (wild type strain), Staphylococcus

epidermidis (2x10³) (wild type strain)

Expected Results:

Exami	nation	Expected Result	Your Result	Score for performance assessment	Z-score	
Clostridium perfringens		N/A**		N/A	N/A	
Aerobic Colony	y Count (30°C)	N/A**		N/A	N/A	
Enterobacteriaceae		5.6x10¹ - 9.4x10⁵ cfu per swab		N/A	N/A	
Escherichia coli		<100 cfu per swab		N/A	N/A	
Comments on Performance:						
Clostridium perfringens						
Total numb	er of participants examining the s	ample for Clostridium perfringens	3	3		
Participants	reporting correctly		2	2		
Total partici	pants reporting for Clostridium pe	erfringens	2	2		
Participants	reporting a low censored value		1	1		
FEPTU QC	median		3	3.0x10² cfu per swab (2.48	log₁₀)	
Aerobic Colony Count (30°C)						
Total number of participants examining the sample for Aerobic Colony Count (30°C)			3	3		
Participants reporting correctly			3	3		
Total partici	Total participants reporting for Aerobic Colony Count (30°C)			3		
FEPTU QC	median		4	1.5x10⁴ cfu per swab (4.18 log₁₀)		
Enterobacteriaceae						
Total numb	er of participants examining the sa	ample for Enterobacteriaceae	7	7		
Participants	reporting correctly		7	7		
Total partici	pants reporting for Enterobacteria	aceae	7			
Assigned va	alue (participants' median)		7	7.3x10 ³ cfu per swab (3.86	log₁₀)	
Uncertainty	of assigned value (Ux= log10 cfu	per swab)	(0.60		
Participants	' mean		2	2.8x10 ³ cfu per swab (3.45	log₁₀)	
*Standard c	leviation of participants' results		ŕ	1.06 log₁₀ cfu per swab		
FEPTU QC	median		Ę	5.0x10³ cfu per swab (3.7 l	og₁₀)	
Escherichia coli						
Total numb	er of participants examining the same	ample for <i>Escherichia coli</i>	7	7		
Participants	reporting correctly		7	7		
Total sent samples				11		
Not examined			:	2		
Non returns			1	0		
		ne z-scores is 0.35 for all parameters.				

Robust SD based on median absolute deviation about the participants' median (MAD).

Note: enumeration parameters with less than 10 participants results are not scored. Please see explanation in the comments section.

Swab Sample: PH0029

Sample type: Template area swab (10cm x 10cm) from a staff member's apron

Request: Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

Contents:

Clostridium perfringens (1) (wild type strain), Bacillus subtilis (24) (wild type strain), Micrococcus varians (1.7x10²) (wild

type strain)

Expected Results:

	Examination	Expected Result	Your Result	Score for performance assessment	Z-score	
Clostridium perfringens		N/A**		N/A	N/A	
Aerobic Colony Count (30°C)		6.4x10 ¹ - 6.4x10 ² cfu cm ²		N/A	N/A	
	Enterobacteriaceae	<1 cfu cm ²		N/A	N/A	
	Escherichia coli	<1 cfu cm ²		N/A	N/A	
Comments on Perfo	mance:					
Clostridium perfring	ens					
Total number of participants examining the sample for <i>Clostridium perfringen</i>		ample for Clostridium perfringens	3			
	Participants reporting correctly		1			
	Total participants reporting for Clostridium pe	erfringens	1			
	Participants reporting a low censored value		2			
FEPTU QC median			0			
erobic Colony Cou	int (30°C)					
	Total number of participants examining the s	ample for Aerobic Colony Count (30°C)	7			
	Participants reporting correctly		7			
	Total participants reporting for Aerobic Colony Count (30°C)		7			
	Assigned value (participants' median)		2.0x10² cfu cm² (2.31 log₁₀))	
	Uncertainty of assigned value (Ux= log10 cfu	cm²)	0	0.06		
	No. of outlying counts		1	(0 low / 1 high)		
	Participants' mean		2	.2x10² cfu cm² (2.33 log₁₀)	
	*Standard deviation of participants' results		0.15 log₁₀ cfu cm²			
	FEPTU QC median		1.8x10 ² cfu cm ² (2.26 log ₁₀)))	
Enterobacteriaceae						
	Total number of participants examining the s	ample for Enterobacteriaceae	8			
	Participants reporting correctly		8			
Escherichia coli						
Total number of participants examining the sample for Escherichia coli		ample for Escherichia coli	8			
Participants reporting correctly			8			
Total sent samples			1	1		
Not examined			2	2		
Non returns			C)		
The fixed standard	d deviation value (σ value) used for calculation of t	he z-scores is 0.35 for all parameters				

Robust SD based on median absolute deviation about the participants' median (MAD).

Note: enumeration parameters with less than 10 participants results are not scored. Please see explanation in the comments section.

Swab Sample: PH0030

Sample type: Template area swab (10cm x 10cm) from a raw meat preparation area

Request: Examine samples following your routine protocol for the above outbreak – enter the examination carried out and the results obtained below

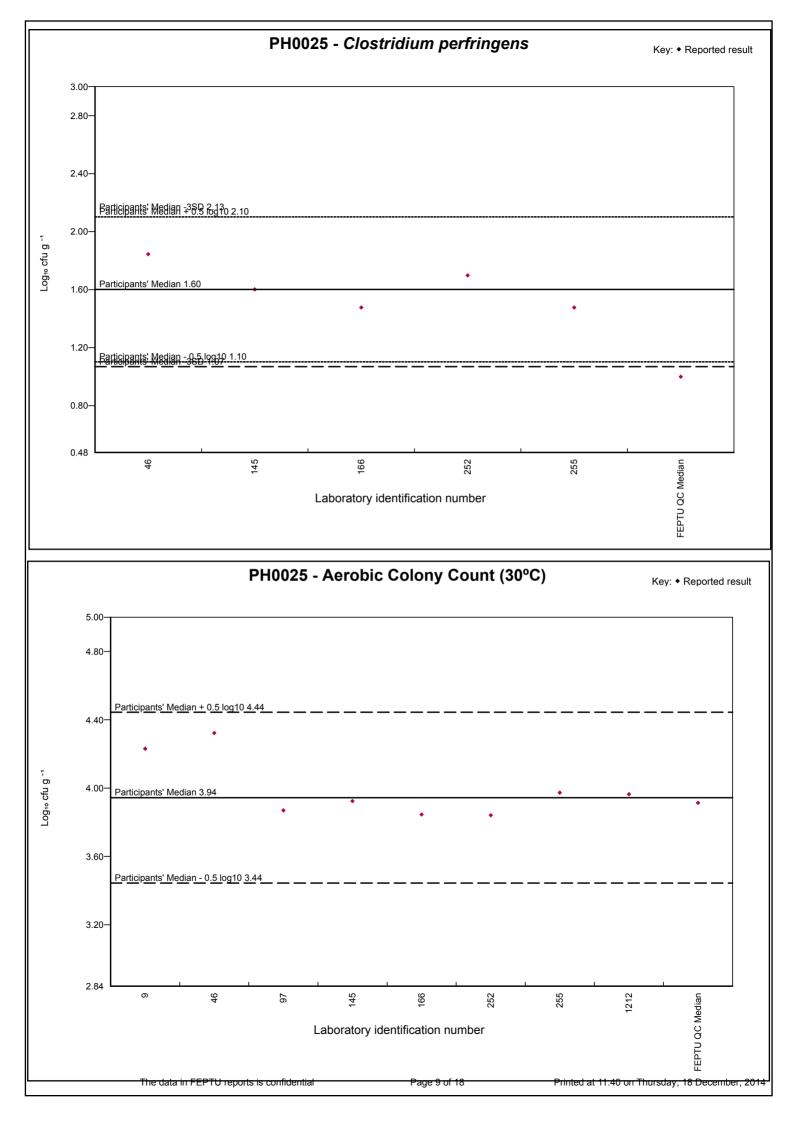
Contents:

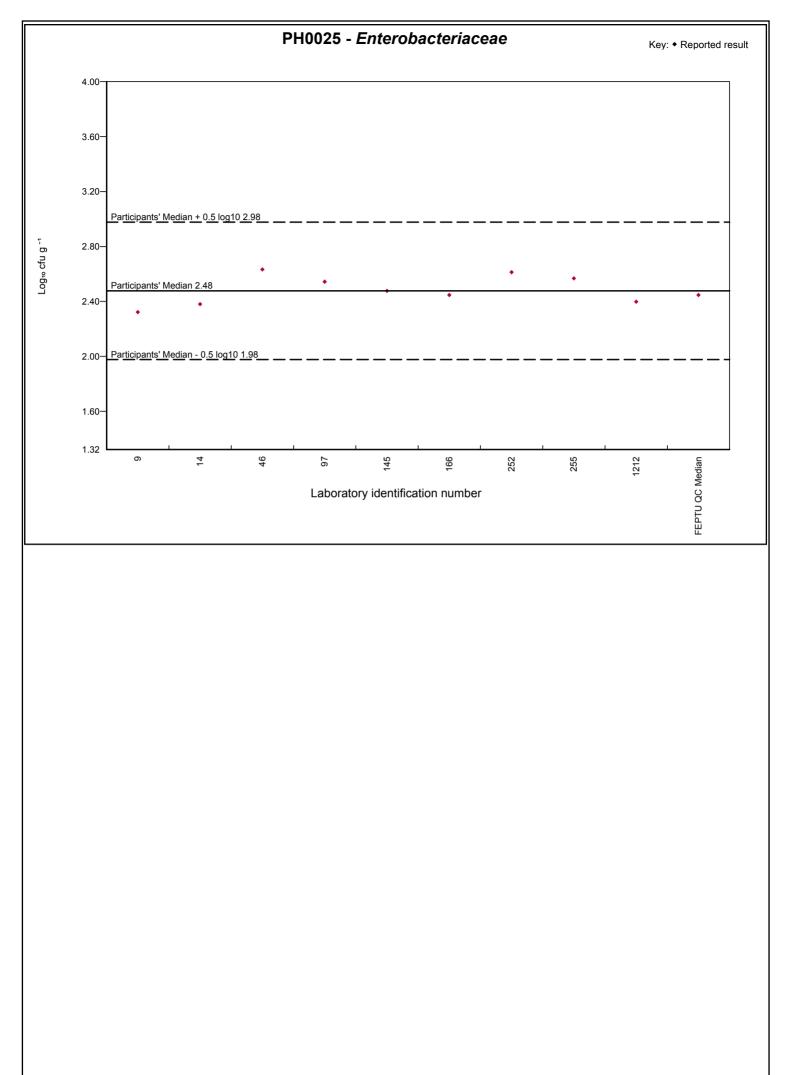
Enterobacter cloacae (82) (wild type strain), Enterococcus faecium (29) (wild type strain), Escherichia coli (17) (wild type

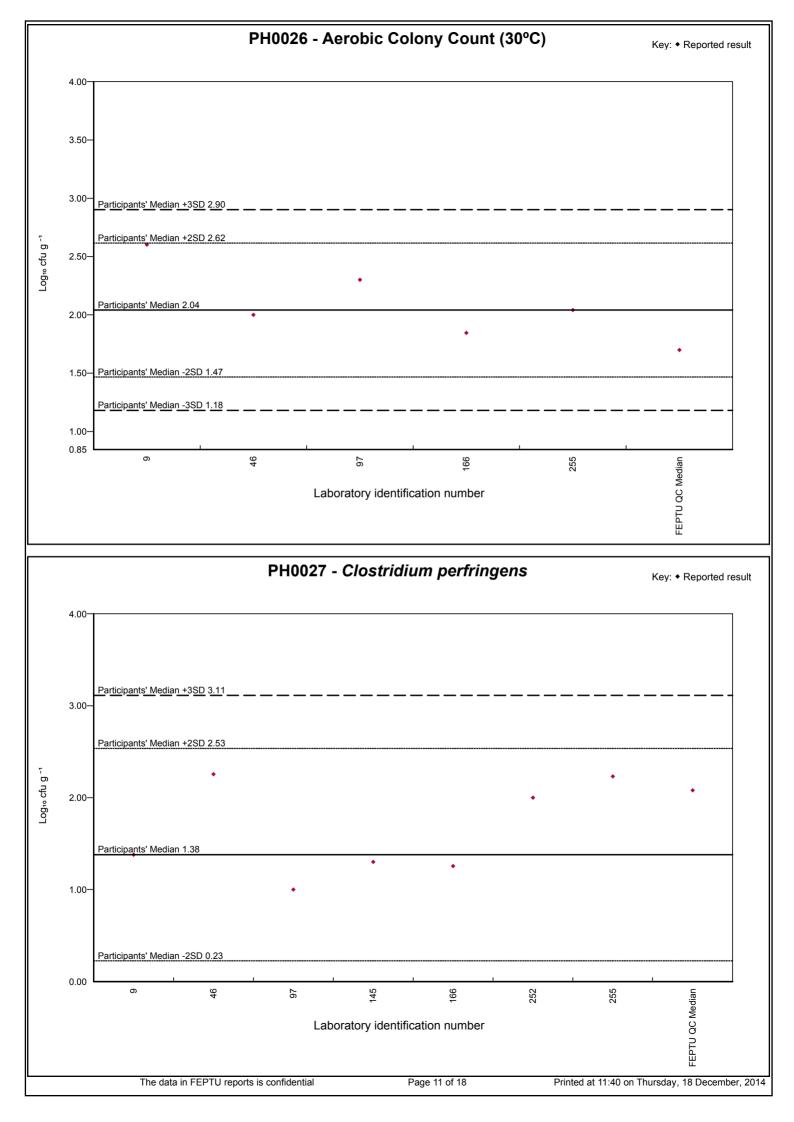
sytpæins)train)

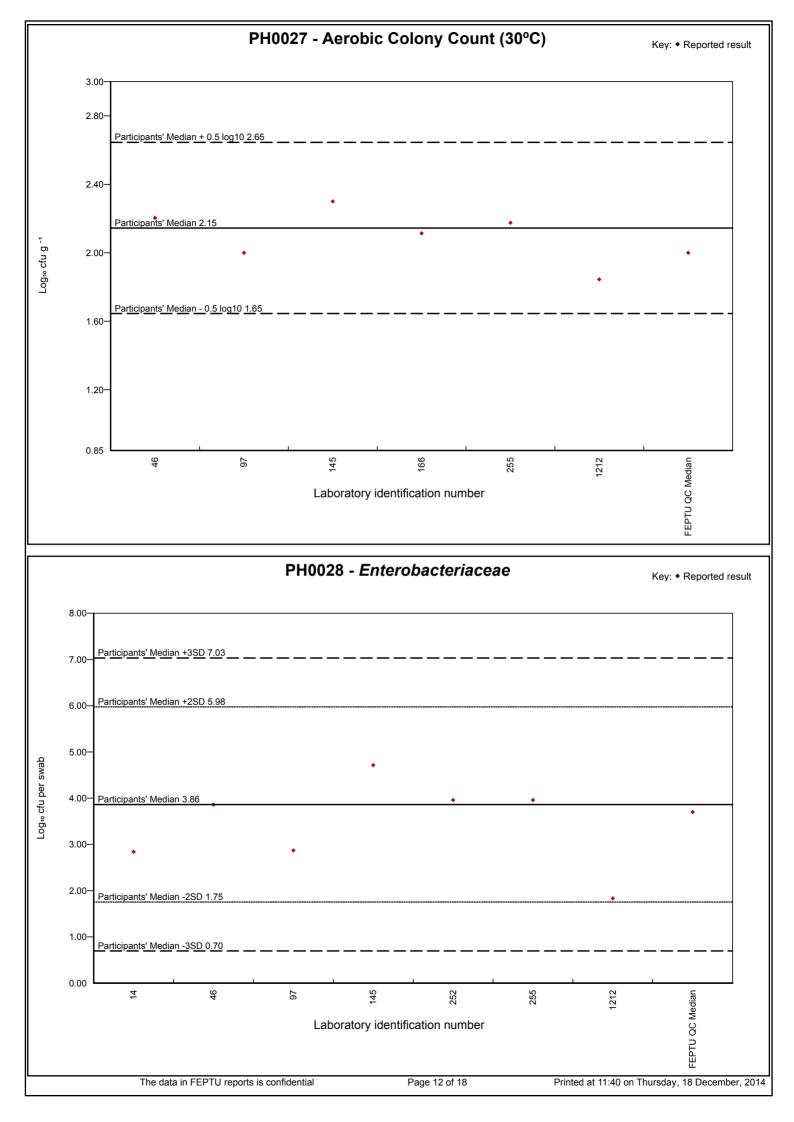
Expected Results:

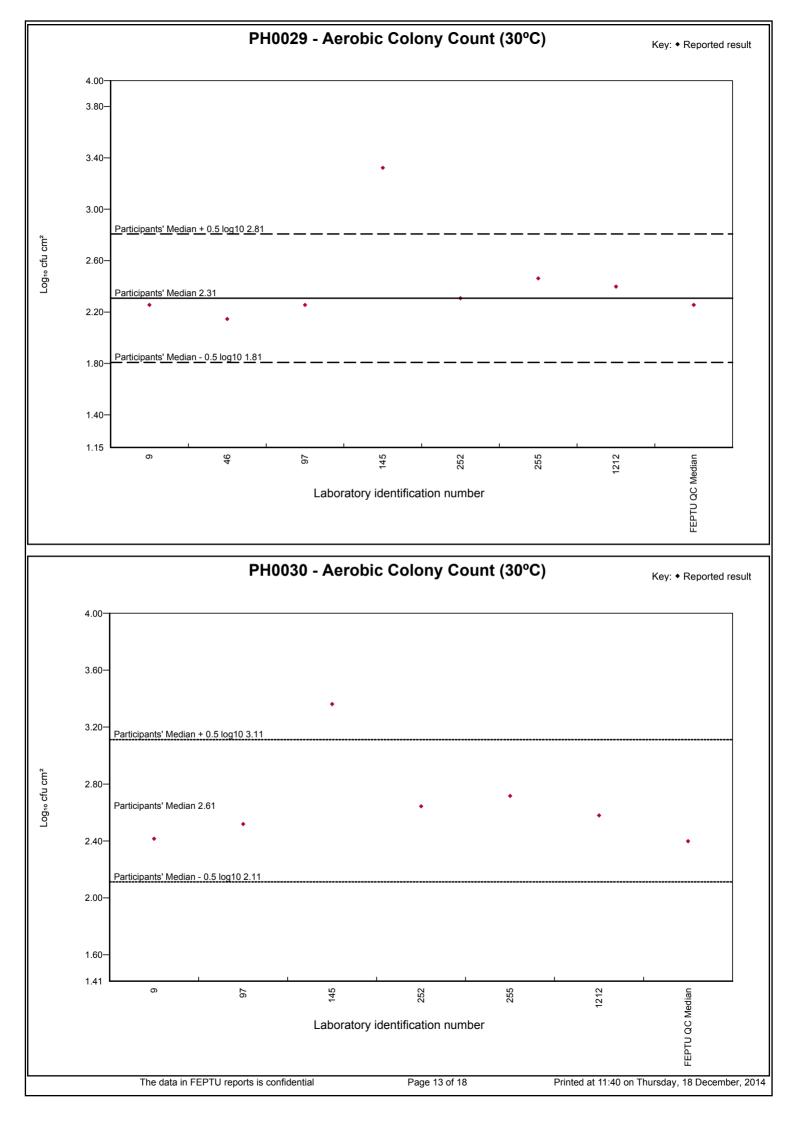
	Examination	Expected Result	Your Result	Score for performance assessment	Z-score	
(Clostridium perfringens	<1 cfu cm ²		N/A	N/A	
Aer	obic Colony Count (30°C)	1.3x10² - 1.3x10³ cfu cm²		N/A	N/A	
	Enterobacteriaceae	4.8x10 ¹ - 6.8x10 ² cfu cm ²		N/A	N/A	
	Escherichia coli	0 - 1.2x10 ² cfu cm ²		N/A	N/A	
Comments on Perfo	ormance:		1	1		
Clostridium perfring	iens					
	Total number of participants examining the s	ample for Clostridium perfringens		4		
	Participants reporting correctly			4		
erobic Colony Cou	unt (30°C)					
2	Total number of participants examining the s	ample for Aerobic Colony Count (30°C)		6		
	Participants reporting correctly	,		6		
	Total participants reporting for Aerobic Color	v Count (30°C)		6		
	Assigned value (participants' median)	,		4.1x10 ² cfu cm ² (2.61 log ₁₀)	
	Uncertainty of assigned value (Ux= log ₁₀ cfu	cm²)		0.07	-/	
	No. of outlying counts			1 (0 low / 1 high)		
	Participants' mean			4.1x10 ² cfu cm ² (2.62 log ₁₀		
	*Standard deviation of participants' results			0.17 log ₁₀ cfu cm ²	<i>י</i>)	
	FEPTU QC median			2.5x10 ² cfu cm ² (2.4 log ₁₀)		
-,,,,						
Enterobacteriaceae				•		
Total number of participants examining the sample for <i>Enterobacteriaceae</i>				8		
Participants reporting correctly				8		
	Total participants reporting for <i>Enterobacteri</i>	aceae		8		
	Assigned value (participants' median)			1.8x10 ² cfu cm ² (2.26 log ₁₀)		
	Uncertainty of assigned value (Ux= log ₁₀ cfu	cm²)		0.10		
	No. of outlying counts			3 (2 low / 1 high)		
	Participants' mean			1.7x10² cfu cm² (2.23 log ₁₀)		
	*Standard deviation of participants' results			0.29 log ₁₀ cfu cm ²		
	FEPTU QC median			1.1x10 ² cfu cm ² (2.03 log ₁₀	»)	
Escherichia coli						
	Total number of participants examining the s	ample for Escherichia coli		8		
	Participants reporting correctly			6		
	Total participants reporting for Escherichia c	oli		6		
	Assigned value (participants' median)			9 cfu cm² (0.99 log ₁₀)		
	Participants reporting a low censored value			2		
	Uncertainty of assigned value (Ux= log10 cfu	cm²)		0.28		
	Participants' mean			7 cfu cm² (0.88 log ₁₀)		
	*Standard deviation of participants' results			0.55 log₁₀ cfu cm²		
	FEPTU QC median			1.7x101 cfu cm2 (1.23 log10	»)	
otal sent samples				11		
lot examined				2		
lon returns				0		
The fixed standard	d deviation value (σ value) used for calculation of t	he z-scores is 0.35 for all parameters.				
	on median absolute deviation about the participan					
		are not scored. Please see explanation in the com	ments section.			
	,					

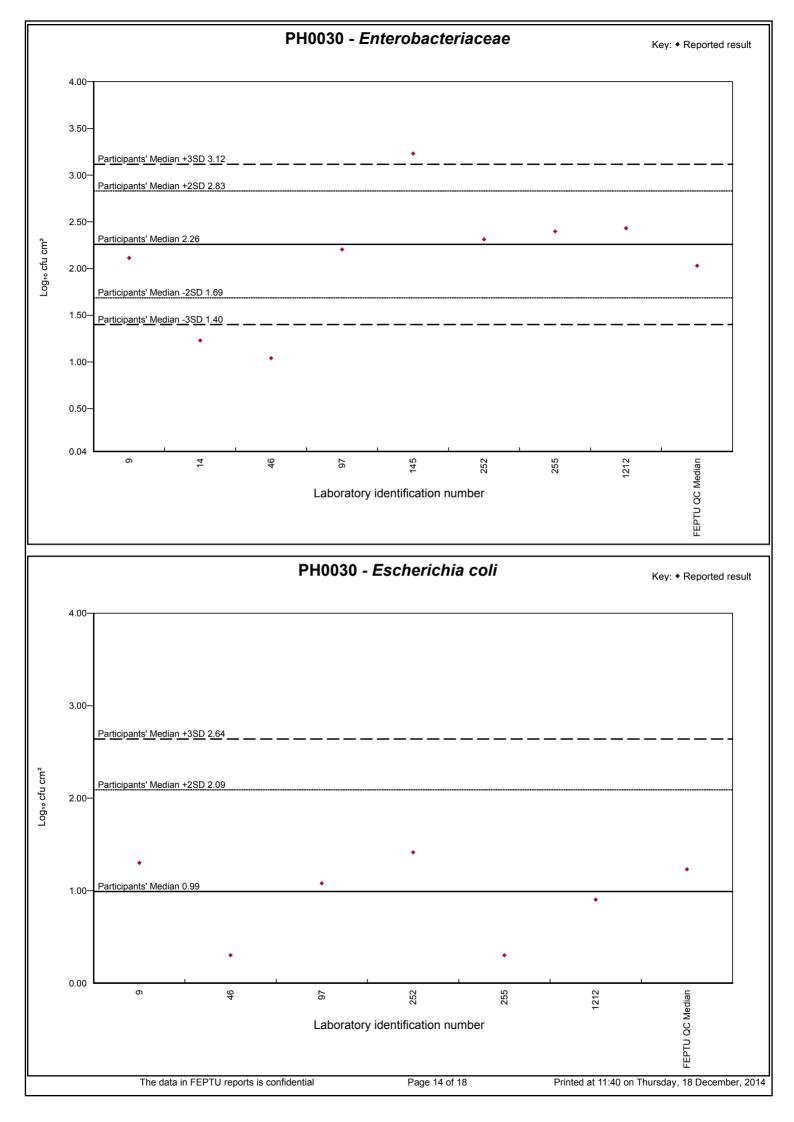












Comments for distribution PH5

Nine laboratories analysed the samples from this distribution. All laboratories identified that *Clostridium perfringens* was the main food borne pathogen causing this outbreak.

The table below shows the additional examinations carried out by the participants and the reported results. Any incorrect results reported are shown in red.

Additional examination	Number of laboratories examining	Reported results	Number of laboratories examining	Reported results
	Sampl	e PH0025	Sampl	e PH0026
	(Chicke	en stir fry)	(Egg f	ried rice)
Bacillus cereus	8	<10 (1)	9	<10 (2)
		<20 (2)		<20 (2)
		<100 (4)		< 100 (3)
		<1000 (1)		< 200 (1)
				<1000 (1)
Campylobacter spp.	6	Not detected (6)	5	Not detected (5)
Coagulase-positive staphylococci	2	<20 (2)	2	<20 (2)
Escherichia coli 0157	3	Not detected (3)	3	Not detected (3)
Listeria spp.	1	<10 (1)	2	<10 (1)
(including mono)				<20 (1)
Listeria monocytogenes	° 1 <u>°</u>	<10 (1)	1	<10 (1)
Salmonella spp.	9	Not detected (9)	9	Not detected (9)

	Sample PH0027 (Chicken satay)		Sample PH0028 (Random area swab taken the from mincemeat grinding machine)	
Bacillus cereus	8	<10 (2) <20 (2) <100 (3) <1000 (1)	2	<10 (1) <100 (1)
Campylobacter spp.	6	Not detected (6)	3	Not detected (3)
Coagulase-positive staphylococci	2	<20 (2)	2	<10 (1) <100 (1)
Escherichia coli 0157	3	Not detected (3)	4	Not detected (4)
<i>Listeria</i> spp. (including mono)	° 1 °	<10 (1)		
Listeria monocytogenes	1	<10 (1)		
Salmonella spp.	9	Not detected (9)	8	Not detected (8)

	Sample PH0029 (Template area swab taken from a staff member's apron)		Sample PH0030 (Template area swab taken from a raw meat preparation area)	
Bacillus cereus	4	<1 (2) <2 (1) <10 (1)	3	<1 (1) <2 (1) <10 (1)
Campylobacter spp.	2	Not detected (2)	2	Not detected (2)
Coagulase-positive staphylococci	5	<1 (2) <2 (1) <10 (1) <20 (1)	3	<1 (1) <2 (1) <10 (1)
Escherichia coli 0157	3	Not detected (3)	4	Not detected (4)
Salmonella spp.	9	Not detected (9)	9	Not detected (9)

Additional comments:

Reporting results for swabs

Participants are advised that the standard international reporting of results where no growth is obtained in a swab sample is <100 from a random area swab and <1 from a template area swab (100sq cm).

Statistical evaluation

Participants are advised that for a robust statistical evaluation at least 20 reported results are required for a parameter. When statistical calculation is based on 10 - 19 result, they should be interpreted with caution as they may be overly influenced by outlying results. When there are fewer than 10 reported results, the statistics are not considered robust enough to enable scoring. Therefore for this scheme, participants will notice that for some sample parameters, the statistics have been calculated for information and is not scored.

Participants are informed that due to the low number of participation the Public Health Scheme will be withdrawn from the next distribution year (April 2015).

If you do not return a result for a distribution, you will not be able to view all the participants' results data in your individualised report. Therefore, we will post generic reports on the website, which will be available for 12 months after the distribution has closed, so you can access the missing data.

End of report