



Protecting and improving the nation's health

Summary of Results

External Quality Assessment of Food Microbiology

Shellfish Scheme

Distribution Number: SF061

Sample Numbers 750 30 5F0131

Distribution Date:	October 201
Results Due:	02 Novem er 2013
Report Date:	0% NOV mbe 2518
Samples prepared and	Ang `a Appea
quality control tested by:	Richarc Borrill
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Data analys d by.	Nita Patel
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,	
	Distribution Date: Results Due: Report Date: Samples prepared and quality control tested by: Data analys d by. R∈ porc compiled by: Authorised by:

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This Scheme provides external quality assessment samples for laboratories that examine raw bivalve molluscs from harvesting sites in accordance with Regulation (EC) No. 854/2004 and from the production chain between harvest and consumption, in accordance with Regulation (EC) 2073/2005 and subsequent amendments. The Scheme is organised in collaboration with the Centre for Environment, Fisheries and Aquaculture Science (Cefas), Weymouth, United Kingdom (UK). Articles 32 and 33 of Commission Regulation (EC) No. 882/2004 defines the roles of the European Union Reference Laboratories (EURL) and National Reference Laboratories (NRL). These roles include responsibility for organising comparative testing of methods. The EU reference method for enumeration of E. coli in raw bivalve molluscs is ISO 16649-3. Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of β-glucuronidase-positive Escherichia coli Part 3: Most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide. In 2011 the Standing Committee on Food Chain and Animal Health (SCoFCAH) approved the use of two alternative methods for the enumeration of E. coli. These are Enumeration of Escherichia coli in live bivalve molluscan shellfish by the direct impedance technique using the BacTrac 4300 series analyser and Enumeration of Escherichia coli in bivalve molluscan shellfish by the colony-count technique. Protocols for the application of these methods are available for download at www.eurlcefas.org For further information on the scheme please refer to: Scheme Guide: https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scheme-guide For more specific information about results assessments, scoring systems, statistics, and guidance a lysing your results for the proficiency testing samples please refer to: Guide to Scoring system and statistics: https://www.gov.uk/government/publications/food-and-water-proficiency-testing-schemes-scoring-sy ems-a. 1-statistics FEPTU Quality Control: To demonstrate stability of the sample, a minimum of six LENTICULE® di us, Neu and and from a batch, are examined throughout the distribution period for *E. coli* enumeration and for *Salmone* detect. n. FEPTU results are determined using methods based on ISO methods and are included in the 'In Indec esults' letters which provide guidance for participants regarding the assigned values. Intended results letters are posted on the website immediately after every dir ubution electronic notification of their availability is sent to all participants. Refer to section 17.0 of the Scheme Guide if you have experienced difficult. Swith any of the examinations. https://www.gov.uk/government/publications/food-and-water-pro _____cy-testing-schemes-scheme-guide All participants are reminded that reporting an incorrec or womple e result or identification of pathogens from food samples could have serious public health implications. Similarly, to the serious public health implications. subsequent outcome for the product. Reporting an incorrect result for the Escherichia coli ost probable number (MPN) may affect the classification of the harvesting area and the subsequent treatment of the non-biv the molluscs. Incorrect reporting of results for Salmon la n v affect the subsequent outcome for the product and could have serious public health implications Participants are reminded that the p rpo a scoring is to draw attention to incorrect or outlying results. Results as summarised in the performance ssest nent sheet included in this report, provide a more effective indication of on-going problems with food mic obiolc, examinations. Please contact F. TU Cefas staff for advice and information: Repeat samples Carmen Gomes or Kermin Daruwalla Tel: +44 (0)20 8327 7119 Fax: +44 (0)20 8200 8264 **Data Analysis** Manchari Rajkumar or Nita Patel Email: foodega@phe.gov.uk Microbiological advice Nita Patel or Zak Prior FEPTU's website General comments and complaints Nita Patel or Zak Prior Scheme consultants Louise Stockley Tel: +44 (0)1305 206 644 Nita Patel Email: louise.stockley@cefas.co.uk Scheme Co-ordinator

Accreditation: PHE Food EQA Scheme for Shellfish is accredited by the United Kingdom Accreditation Service (UKAS) to ISO/IEC 17043:2010.



Sample: SF0130

Description: Raw shellfish from a new shellfish bed

Contents:

* Escherichia coli 4.9x10² - 3.3x10³ (wild strain), Enterococcus faecalis 4.9x10⁴ (wild strain), Staphylococcus hominis

2.4x10^₄ (wild strain)

All levels are presented as colony forming units (cfu) per ml reconstituted sample unless otherwise stated

* MPN per 100ml reconstituted sample

Expected Results:

Examination	Expected Result	Your Result			
		Replicate 1	Replicate 2	PHE Score	
		Not Examined		Not Examined	
<i>E.coli</i> (MPN)	2.7x10 ² - 6.4x10 ³ per 100g	Comments:			
		Comments:			
<i>Salmonella</i> spp.	Not detected in 25g				
<i>E.coli</i> MPN value	es reported are summarised in Fig.1			K	
E. coli					
Total participants reporting duplicate results for <i>E.coli</i> MPN 87				87	
Participants reporting a single MPN result only				4	
Participants reporting MPN results within the expected range for both registrate			84		
Participants reportir	ng MPN results outside expected range for	bc, repl. ⊤ ∋s		1	
Participants reporting MPN result outside expected range for one repl. Ste only 2			2		
Participants reporting tube combination inconsistent with !" N reported 13			13		
Participants reporting censored values for one replice 0			0		
Participants reporting censored values for both Lpr. ates			0		
Assigned value (participants' median MPC esult), 1.3x10 ^a per 100 g				1.3x10 ³ per 100 g	
Participants' mean MPN result			1.8x10³ per 100 g		
Standard deviation (SD) of particiants' route 0.27 log ₁₀ unit per 100g				0.27 log₁₀ unit per 100g	
FEPTU QC medi	FEPTU QC medic MPN r sult 1.7x10 ³ per 100 g				

Salmonella spp.			
Total participants reporting for Salmonella spp.	78		
Total participants reporting the absence of Salmonella spp.	78 (100%)		

Total sent sample	96
Non-returns	1
Not examined	5

Sample: SF0131

Description: Raw shellfish from a new shellfish bed

Contents:

*Escherichia coli 1.7x10³ - 3.5x10⁴ (wild strain), Salmonella Crewe 1.4x10² 11:z:1,5 (wild strain), Micrococcus sp.

3.6x10⁴ (wild strain), *Pseudomonas aeruginosa* 7.9x10⁴ (wild strain)

All levels are presented as colony forming units (cfu) per ml reconstituted sample unless otherwise stated

* MPN per 100ml reconstituted sample

Expected Results:

Examination	Expected Result	Your Result			
		Replicate 1	Replicate 2	PHE Score	
				Not Examined	
<i>E.coli</i> (MPN)	1.0x10 ³ - 2.4x10 ⁴ per 100g	Comments:			
		Comments:			
<i>Salmonella</i> spp.	Detected in 25g				
<i>E.coli</i> MPN value	E.coli MPN values reported are summarised in Fig.2				
E. coli					
Total participants reporting duplicate results for <i>E.coli</i> MPN			79		
Participants reportir	ng a single MPN result only	·		4	
Participants reporting MPN results within the expected range for both remcate			78		
Participants reportir	ng MPN results outside expected range for	bc, repi, ⁻⊋s		0	
Participants reporting MPN result outside expected range for one reput the only			1		
Participants reporting tube combination inconsistent with M reported 12			12		
Participants reporting censored values for one replice			0		
Participants reporting censored values for both spin ates			0		
Assigned value (participants' median MPsult			4.9x10 ³ per 100 g		
Participants' mean MPN result			5.9x10 ³ per 100 g		
Standard deviation (SD) of participants' rout			0.26 log₁₀ unit per 100g		
FEPTU QC medir _MPN r sult 4.6x10 ³ per 100 g				4.6x10 ³ per 100 g	

Salmonella spp.	
Total participants reporting for Salmonella spp.	74
Total participants reporting the presence of Salmonella spp.	73 (99%)

Total sent sample	96
Non-returns	1
Not examined	12

Performance Assessment Sheet

Participants are reminded that to take advantage of the performance assessment overtime tool provided in the reports they need to take part in more than one distribution a year.

Performance assessments are designed to identify laboratories with on-going problems with their examinations and are undertaken after every distribution. Scores are allocated to results reported for every sample to help assess participants' performance.

Cumulative scores are calculated for every participant, for all examination types, for the current and previous two distributions. Participants' cumulative scores for each of the examination types are compared with the maximum possible scores after every distribution.

Your laboratory performed 6 examinations for the last 3 distributions.

Distribution	Sample	<i>E.coli</i> score	Your % per distribution	Salmonella sp. score	Your % per distribution
	SF0130				
SF061	SF0131				
	SF0128				
SF060	SF0129				
	SF0126				
SF059	SF0127				
Total maximu	um possible score				



Performance As essment Comment:

Laboratories t' at ach' ve less than 70% of the maximum possible score are likely to be experiencing significant problems with a pir examinations and are advised to

a) refer to the relevant scaple reports for specific comments

b) refer to the websit guidance documents: https://www.gov.uk/government/collections/external-quality-assessment-eqa-and-proficiency-testing-pt-for-food-water-and-e nvironmental-microbiology

c) contact the organisers for advice.



The data in FEPTU reports is confidential

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General comments:

Laboratories designated as an Official Control Laboratory within their country must report their MPN results in accordance with ISO 7218:2007/Amd.1:2013. All dilutions examined must be reported; therefore 2 points have been deducted for each replica when this has not been done.

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.

Trend analysis

Plotting your PT results over a period of time can help to identify putential problems. Download the updated trend analysis spreadsheet one week after this report has been issued:

https://www.gov.uk/government/publications/shellfish-scheme-tre_d-an_lysis

End of report.

The data in FEPTU reports is confidential