



UK Health  
Security  
Agency

## Food and Environmental Proficiency Testing Unit

Laboratory Identification no. (Check) **Lab No.**

Dispatch date: **30 January 2023** Final date for return of results: **24 February 2023**

**RESULTS TO BE RETURNED VIA ONLINE SURVEY AS PER  
EMAIL SENT TO YOU**

**Contact details:**

The Organisers - FEPTU  
UK Health Security Agency  
61 Colindale Avenue,  
London, NW9 5EQ, UK.  
Tel: +44 (0) 20 8327 7119  
e-mail: foodeqa@phe.gov.uk



**Store LENTICULE disc samples @ -20°C ± 5°C**

### Shiga toxin producing *Escherichia coli* (STEC) Request/Report Form

<b>Distribution No.: STX13</b>	<b>Sample numbers: STX025 &amp; STX026</b>
Download the sample Instruction sheet	<a href="http://www.gov.uk/government/publications/shiga-toxin-escherichia-coli-scheme-sample-instruction-sheet">www.gov.uk/government/publications/shiga-toxin-escherichia-coli-scheme-sample-instruction-sheet</a>
Download the safety data sheet:	<a href="http://www.gov.uk/government/publications/safety-data-sheet-for-lenticules">www.gov.uk/government/publications/safety-data-sheet-for-lenticules</a>
<i>If you cannot examine any of these samples return your results as 'Not examined'</i>	
<b>Request:</b>	I. Examine samples for STEC genes

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## SAMPLE: STX025

STEC / VTEC / EHEC (Shiga / verocytotoxic / enterohemorrhagic) testing:-

	Target Genes	Positive (circle)	CT value		Not examined	Serogroup (e.g. O157)	Positive (circle)	CT value	Serotype (e.g. H7)	Positive (circle)	CT value
STEC virulence gene detection	<i>stx</i> ( <i>stx</i> 1/2 combined)	Yes / No / NE		STEC identification gene detection	<input type="checkbox"/>	O157	Yes / No / NE			Yes / No / NE	
	<i>stx</i> 1	Yes / No / NE				O26	Yes / No / NE			Yes / No / NE	
	<i>stx</i> 2	Yes / No / NE				O103	Yes / No / NE			Yes / No / NE	
	<i>eae</i>	Yes / No / NE				O104	Yes / No / NE			Yes / No / NE	
	Other .....	Yes / No / NE				O111	Yes / No / NE			Yes / No / NE	
						O145	Yes / No / NE			Yes / No / NE	
						Other..... .....	Yes / No / NE			Yes / No / NE	

### Interpretation of results:-

Select interpretation of your results	Explanation
<input type="checkbox"/> Not examined / Not applicable	
<input type="checkbox"/> STEC not detected in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC causing the attaching and effacing lesion in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC of xx serogroup in the test portion of x g or x ml	
<input type="checkbox"/> Other:	

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# Food and Environmental Proficiency Testing Unit

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**SAMPLE: STX026**

**STEC / VTEC / EHEC (Shiga / verocytotoxic / enterohemorrhagic) testing:-**

STEC virulence gene detection				STEC identification gene detection							
Target Genes	Positive (circle)	CT value	Not examined	Serogroup (e.g. O157)	Positive (circle)	CT value	Serotype (e.g. H7)	Positive (circle)	CT value		
<i>stx</i> ( <i>stx</i> 1/2 combined)	Yes / No / NE		<input type="checkbox"/>	O157	Yes / No / NE			Yes / No / NE			
<i>stx</i> 1	Yes / No / NE			O26	Yes / No / NE			Yes / No / NE			
<i>stx</i> 2	Yes / No / NE			O103	Yes / No / NE			Yes / No / NE			
<i>eae</i>	Yes / No / NE			O104	Yes / No / NE			Yes / No / NE			
Other .....	Yes / No / NE			O111	Yes / No / NE			Yes / No / NE			
				O145	Yes / No / NE			Yes / No / NE			
				Other..... ....	Yes / No / NE			Yes / No / NE			

NE = Not Examined

**Interpretation of results:-**

Select interpretation of your results	Explanation
<input type="checkbox"/> Not examined / Not applicable	
<input type="checkbox"/> STEC not detected in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC causing the attaching and effacing lesion in the test portion of x g or x ml	
<input type="checkbox"/> Presumptive detection of STEC of xx serogroup in the test portion of x g or x ml	
<input type="checkbox"/> Other:	

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## Food and Environmental Proficiency Testing Unit

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Any further comments:-

Authorised by:

Date reported:

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**METHOD QUESTIONNAIRE – not all findings will be presented in the scheme report (include as much detail as possible or references):**

<p><b>1. Do you exactly follow ISO/TS 13136:2012</b> <i>Microbiology of food and animal feed -- Real-time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens - Horizontal method for the detection of Shiga toxin-producing Escherichia coli (STEC) and the determination of O157, O111, O26, O103 and O145 serogroups</i></p>	<b>YES</b>	<b>NO</b>
<p><b>2. If the answer to question 1 is <u>NO</u> please state deviations to ISO/TS 13136:2012</b></p>		
<p><b>3. For routine samples, briefly describe your enrichment process</b>  e.g. 25 g into 225 ml mTSB+N/BPW 41.5 °C for 24hr</p>		
<p><b>4. Provide the details of your DNA extraction kit</b> Include company name, kit name, protocol(s) if applicable:  e.g., Promega, Maxwell® 16 Cell DNA purification kit</p>		
<p><b>5. If your DNA extraction process requires a platform please state platform used</b></p>		

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<b>6. State if you use conventional PCR or real-time PCR</b>	
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<b>7. If using a commercial kit for primer / probe / amplification mix</b> Please provide company name, kit name: e.g., Bio-Rad, IQ-Check STEC SerO; Bio-Rad IQ-Check® STEC VirX	
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<b>8. What volume of extracted DNA is used?</b>	
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<b>9. Please complete the Cycle information tables</b>	<b>Pre-incubation:</b> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #cccccc; width: 25%;">Time (hh:mm:ss)</td> <td style="width: 25%;"></td> <td style="background-color: #cccccc; width: 25%;">Temperature (°C)</td> <td style="width: 25%;"></td> </tr> </table>					Time (hh:mm:ss)		Temperature (°C)																									
Time (hh:mm:ss)		Temperature (°C)																															
	<b>Cycle information:</b> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #cccccc;">Parameter</th> <th style="background-color: #cccccc;">Denaturisation</th> <th colspan="4" style="background-color: #cccccc;">Cycling</th> <th style="background-color: #cccccc;">Cooling</th> </tr> </thead> <tbody> <tr> <td style="background-color: #cccccc;">Cycles</td> <td>x1</td> <td colspan="4">x.....</td> <td>x1</td> </tr> <tr> <td style="background-color: #cccccc;">Temperature (°C)</td> <td></td> <td style="background-color: #cccccc;">Step 1:</td> <td style="background-color: #cccccc;">Step 2:</td> <td style="background-color: #cccccc;">Step 3:</td> <td style="background-color: #cccccc;">Step 4:</td> <td></td> </tr> <tr> <td style="background-color: #cccccc;">Hold (hh:mm:ss)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Parameter	Denaturisation	Cycling				Cooling	Cycles	x1	x.....				x1	Temperature (°C)		Step 1:	Step 2:	Step 3:	Step 4:		Hold (hh:mm:ss)						
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	<b>Other:</b>  																																

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<p><b>10. Amplification platform used</b> e.g. Bio-Rad CFX96 Touch™ Deep Well RT-PCR Detection Systems</p>	
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<p><b>11. Please use this space for any additional comments you feel are relevant or general comments about the scheme</b></p>	
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