16th Annual Worksop of the National Reference Laboratories for *E. coli* – online event, 18-19 October 2021

Update on the activities carried out by CEN TC463 WG2 on Shiga Toxin producing *Escherichia coli*

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DEVARTMENTO D

Istituto Superiore di Sanità



New structure of the EN ISO/NP 13136









Real Time PCR for *stx* genes

Positive to *stx* genes: Streak enrichment culture onto solid media to isolate the STEC (up to 50 colonies tested)

Part 1

Incubation (41,5° C)

+ enrichment broth (BPW)

Based on isolation results: STEC detected in XX g

STEC serogroup determination (top 5 + O45 and O121), virulotyping (including *stx* genes subtyping)





EN ISO/NP 13136-1 Microbiology of the food chain – Real-time polymerase chain reaction (PCR)-based method for the detection of food-borne pathogens – Part 1: Horizontal method for the detection and isolation of Shiga toxin-producing *Escherichia coli* (STEC)

EN ISO/NP 13136-2 - Part 2 Horizontal method for the characterization of Shiga toxin-producing *Escherichia coli* (STEC)

Draft of both Parts have been submitted to CEN

Activation NWI: Enquiry launched from 2022-04-06 to 2022-06-06



The EN ISO 13136 projects have been approved at ISO and CEN level



EN ISO 13136-1

Result of voting

CEN level: 10 Yes -1 No ISO level: 21 Yes – 1 No EN ISO 13136-2

Result of voting

CEN level: 10 Yes -1 No ISO level: 19 Yes - 1 No

Comments on both parts have been received Results of voting, as well as the comments to be addressed, have been shared with WG2 experts

- ✓ How long the enrichment can be stored at 4°C before attempting the isolation
- ✓ Detail the protocol for bovine faecal samples analyses
- Malditoff discrimination between Shigella and Escherichia
- Description of the colony morphology

An online meeting with WG2 experts organized on 5 September 2022 – revised documents and response to comments are due by October 2022



EN ISO 16654/AMD2



Amendment 2 includes the performance parameters of the media used in ISO 16654

CEN Enquiry (// ISO DIS) from 2022-02-10 to 2022-05-03

Following ballot: positive results both at ISO and CEN level

A few more comments have been addressed, and the final document submitted in August 2022

the final votes (ISO FDIS and CEN Formal Vote) are ongoing Voting begins on: 2022-09-27 Voting terminates on: 2022-11-22