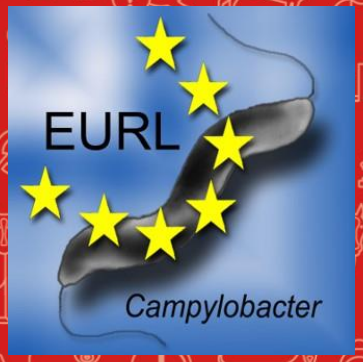

UPDATE ON ACTIVITIES IN ISO AND CEN

Helena Höök and Hanna Skarin,

EURL-*Campylobacter*

CURRENT RELEVANT CEN WORK

- CEN/TC 275/WG 6 Microbiology of the Food chain
  - 26th and last meeting of WG 6 in Milan 8 July 2019
  - CEN/TC 275/**WG 6** → CEN/**TC 463**

    Microbiology of the Food chain

    First meeting in Brussels in November 2019
  - TAG 19: *Campylobacter*

    Amendments ISO 10272 part 1 and 2

CURRENT RELEVANT ISO WORK

- ISO/TC 34/SC 9 Food products – Microbiology
  - 38th meeting of SC 9 in Milan 9–12 July 2019
  - SC 9 currently has 29 working groups (WGs)
  - SC 9 public website (suggested 2018)
  - Ad'hoc group (AHG) 'Guidance of drafting ISO/CEN standard methods for microbiology of the food chain'
    - Second edition expected to be published in January 2020

CURRENT RELEVANT ISO WORK

- ISO/TC 34/SC 9 Food products – Microbiology
  - **WG 2**: Statistics
    - ISO 19036:2019 is published in October 2019
  - **WG 3**: Method validation
  - **WG 4**: Proficiency testing
    - The WG was disbanded after publication of ISO 22117
  - **WG 7**: General requirements and guidance for microbiological examinations
    - ISO 7218: current version from 2007 (with amendment 2013)
    - Revision is requested, agreement on New Work Item Proposal (NWIP) vote by September 2019

ISO/TC 34/SC 9/WG 3: METHOD VALIDATION

- Meetings December 2018 (Brussels) and June 2019 (Bremen)
- ISO 16140 series
- EN ISO 16140-4, 16140-5, 16140-6 expected to be published by the end of 2019
- EN ISO 16140-3 Method verification
  - Preparing final draft (FDIS) by November 2019
  - To be published during spring 2020?
  - Guidance document for implementation of EN ISO 16140-3 in user laboratories
- Some future work
  - PWI of EN ISO 16140-7 on validation of identification methods
  - Launch drafting of the amendment of EN ISO 16140-2, to update the existing document and correct mistakes
  - Start the revision of ISO 17468 (‘Validation of ISO/CEN standards’) to bring it in line with the amendment of EN ISO 16140-2

CEN/TC275/WG6/TAG19 CAMPYLOBACTER

Group leader: EURL-*Campylobacter* (Maria, Sevinc and Hanna)
Project leader: Ute Messelhaeusser, The Bavarian Health and Food Safety Authority

- The aim of the work in TAG19 is to continue and finalize the work that was started in TAG3:
- Produce an informative annex to ISO 10272 with PCR methods for molecular confirmation and identification of thermotolerant *Campylobacter* spp.
- Validate the methods according to ISO 16140-6

METHODS FOR MOLECULAR CONFIRMATION AND IDENTIFICATION OF THERMOTOLERANT *CAMPYLOBACTER* SPP.

- **Confirmation of thermotolerant *Campylobacter*:**
- Josefsen et al., 2004 (2010) and Pacholewicz et al. 2019 (real-time PCR)

- **Identification of thermotolerant *Campylobacter*:**
- Wang et al. 2002 (conventional PCR)
- Mayr et al., 2010 (real-time PCR)

NEXT STEPS

Autumn 2019: Committee draft distributed for commenting

Spring 2020: Validation of PCR methods for confirmation and identification according to ISO 16140-6*

Method comparison study

- Compare the outcome of using PCR methods against using biochemical tests as described in ISO 10272
- Testing 150 (100) inclusivity strains and 100 exclusivity strains at genus (species) level
  - *C. jejuni/coli*: strains from 18 European countries. Need strains from outside Europe
  - *C. lari/upsaliensis*: strains from Germany and Sweden. Need strains from other countries
  - **Interlaboratory study**
- At least 10 participants, each testing a set of 24 strains

* Protocol for the validation of alternative (proprietary) methods for microbiological confirmation and typing procedures.

FOR AMD1: CORRECTION OF THE PERFORMANCE TESTING OF BOLTON BROTH, PRESTON BROTH AND MCCD AGAR

- *Proteus mirabilis* WDCM 00023 at an inoculum ≥10^4 cfu/10ml (ISO 11133*:2016+Amd1:2018) is no longer totally inhibited in Preston broth and form colonies on TSA.
- It is suggested to remove *Proteus mirabilis* totally from the list of test strains because of the contamination risk by this swarming strain.
- Change *Proteus mirabilis* WDCM 00023 to *Staphylocoocus aureus* WDCM 00032 or 00034.

* Preparation, production, storage and performance testing of culture media