

#### National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport



Workprogramme
EURL-Salmonella
June 2019-2020
General discussion
Closure

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# Work programme 2019-2020



- Work programme for 2 years (2019-2020) submitted to DG SANTE in December 2018.
- Template for drafting work programme, follows Regulation (EU) 625/2017, Article 94(2).
- Final Decision of DG SANTE on agreement of work programme and budget 2019-2020 received on 9 April 2019.

Since February 2019 new contact at DG SANTE: Pamina Suzuki



# Activity 1

'To ensure availability and use of high quality methods and to ensure high quality performance by NRLs.'

## Sub-activity 1.1 Analytical methods

#### Objectives:

- Standardisation of methods (ISO and CEN).
- Keep track of developments in (alternative) methods.
- Provide NRLs with information on developments of relevant (standardised/new) analytical methods.









# Sub-Activity 1.1 Analytical methods

Activities in ISO and CEN as project leader or as member:

- ISO-Ad hoc group on drafting Amd.1 of EN ISO 6579-1.
- CEN-TAG3/ISO-WG10 drafting ISO/TS 6579-4 PCR identification of monoSTM: re-testing some strains; amendment of document; launch NWIP; organisation of validation study (at DIS stage).
- ISO-WG3 Method validation, especially ISO 16140-6 (validation of alternative confirmation and typing procedures).
- ISO-Ad hoc group on harmonisation of ISO/CEN standards for microbiology of the food chain: drafting guidance document.
- ISO-Ad hoc group 'General aspects' (member): e.g. drafting proposals for Introduction in ISO's on application of the methods.
- CEN-TAG9 Improvement of the pre-enrichment step (member): discussion results experiments with test protocol.
- ISO-WG25 Whole genome sequencing (member).





# Sub-Activity 1.2 EURLs working group on NGS

#### Objectives:

- Promote the use of NGS across the EURLs' networks.
- Build capacity on producing and using NGS data within the EU.
- Ensure liaison with work of EURLs and of EFSA and ECDC on NGS.

#### Description:

- Working group exists of 8 EURLs and 8 activities in relation to NGS have been defined (2 meetings per year):
- 1) Proficiency Testing
- 2) NGS laboratory procedures (SOPs)
- 3) Bioinformatics tools
- 4) NGS cluster analysis
- 5) Bench marking

- 6) Trainings on NGS
- 7) Reference and confirmatory
- testing using NGS
- 8) Follow-up of ISO
- activities on WGS

2019: Summaries will be drafted on outcome surveys amongst NRLs, and on collected information of different activities.





# Sub-Activity 1.3 Proficiency Tests (I)

#### Objectives:

 Organisation of Proficiency Tests to gain information on the performance of the NRLs-Salmonella for detection and typing of Salmonella.

#### Description:

Organisation of 3 PTs per year:

- 1. One study on detection of *Salmonella* in samples from the primary production stage.
- 2. One study on detection of *Salmonella* in food or animal feed samples.
- 3. One study on typing of *Salmonella* (serotyping, molecular typing).





# Sub-Activity 1.3 Proficiency Tests (II)

- 1. PT on detection of Salmonella in samples from the primary production stage: Sept/Oct 2019; matrix: chicken faeces.
- 2a. PT on detection of *Salmonella* in food samples: February/March 2020; matrix not yet decided.
- 2b. PT on detection of *Salmonella* in bivalve molluscs. Date not yet decided.
- 3. PT on typing of *Salmonella*: November/December 2019; serotyping, molecular typing.
- Set-up studies in line (as much as possible) with EN ISO 22117 ('Microbiology of food and animal feeding stuffs – Specific requirements and guidance for proficiency testing by interlaboratory comparison').
- Results per lab compared to pre-set definition of 'good performance'. In case of poor performance → follow-up study.





# Performance criteria PTs for typing Salmonella

- 4 penalty points: Incorrect typing of S. Enteritidis,
  - S. Typhimurium (including the monophasic variant), S. Hadar,
  - S. Infantis or S. Virchow **or** assigning the name of one of these 5 serovars to another strain.
- 1 penalty point: Incorrect typing of all other Salmonella serovars.
- For each NRL-Salmonella the total amount of penalty points is determined.
- 'Good Performance' is: less than 4 penalty points.
- A follow-up is obligatory for NRLs of EU-MS with 4 penalty points or more.

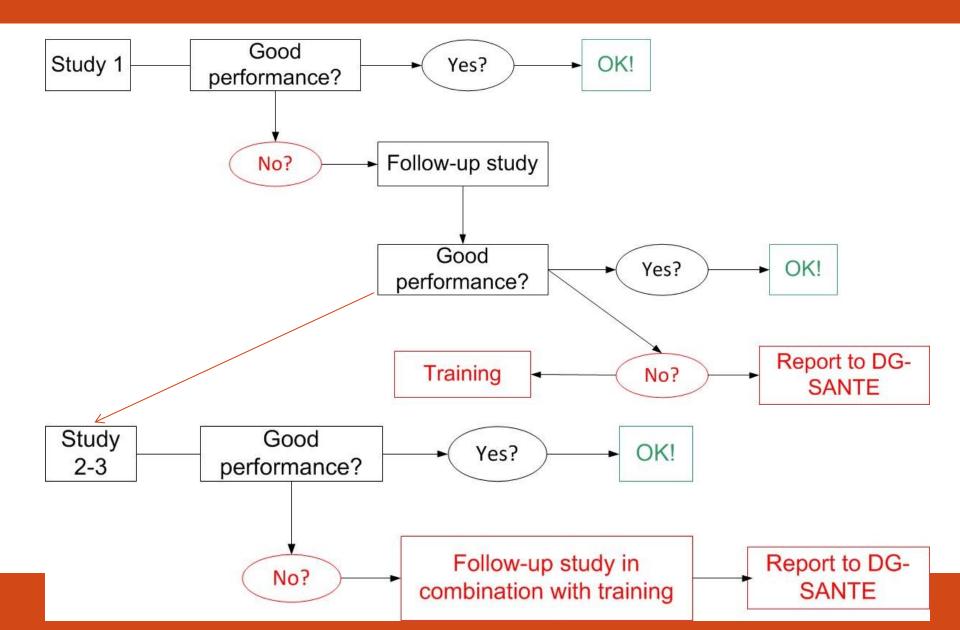


#### Performance criteria PTs for detection Salmonella

Samples with matrix	Percentage positive	# pos samples/ total # samples
Negative samples*	20% max	1/6 max
Low level contamination	50%	3/6
High level contamination	80%	5/6
<b>Control samples</b>	Percentage positive	<pre># pos samples/ total # samples</pre>
BPW	0%	0/1
Own positive control	100%	1/1

<sup>\* 100%</sup> Salmonella free matrix cannot be guaranteed, 1 positive out of 6 blank samples is still considered as acceptable (20%).









# PTs: Moderate performance

- Occasionally PT results are judged as moderate performance.
- Examples for moderate performance:
  - Mixing up of samples;
  - Electricity breakdown (samples stored at elevated temps);
  - Error when copying raw data into electronic result form.
- Initially results are judged as poor performance; after showing raw data this may be changed in moderate performance.
- → No follow-up after 1 PT with moderate performance.
- → Follow-up after repeated moderate performances, e.g. after 3<sup>rd</sup> study in a row with moderate performance or in combination with earlier poor performance in PTs.
- → Type of follow-up decided case by case.





# Activity 2

'To Provide scientific and technical assistance to NRLs.'

## Sub-activity 2.1 Workshop

#### Objectives:

 Exchange of information on the activities of the NRLs-Salmonella and the EURL-Salmonella. Exchange of information on (new) developments in the relevant work field.

#### Description:

• 2019: workshop in the Netherlands

• 2020: 25<sup>th</sup> workshop (!), probably in the Netherlands



## Sub-Activity 2.2 Training courses

#### Objectives:

• To train NRLs-Salmonella in a specific work field.



#### Description:

- 1. Training upon request of an NRL.
- 2. Training upon advise of the EURL (e.g. in case of repeated poor performance in interlaboratory comparison studies).
- 3. Joint EURLs training on WGS (basics), October 2019:
  - Organised in cooperation with EURL-VTEC and EURL-Listeria monocytogenes;
  - 4 NRLs per network (in total 12 participants);
  - Organised at premises EURL-Lm (Maisons-Alfort, France);
  - Call for application will start soon.





## Sub-Activity 2.3 Scientific advice and support NRLs

#### Objectives and description:

- Provide scientific and technical assistance to the NRLs-Salmonella for the relevant work field.
- Perform confirmatory testing (samples/isolates) for NRLs when needed.
- Inform the NRLs of the activities of the EURL and other parties in the relevant work field, as well as of developments in this field.
- Maintenance of the EURL-Salmonella website and keeping the information on the website up to date.
- Publication of 4 newsletters per year, through the website.
- In joint working group of 5 EURLs drafting a harmonised guidance document for organisation of PTs by NRLs for national OL's, including partial outsourcing.



# Guidance document for organisation PTs by NRLs (I)

- Fall 2018: working group raised of 5 EURLs (*Listeria monocytogenes*, coagulase positive staphylococci, STEC, *Campylobacter*, *Salmonella*);
- Development of joint harmonised 'guidance document for organisation of PTs by NRLs for national networks, including partial outsourcing'.
- Based on a document of EURL-Lm.
- After several draft versions, Version 1 (28/02/2019) was sent to 5 EURL-NRL networks for comments, March 2019.
- Some comments received → Discussed in WG mid-April 2019.
- EURL-Lm incorporated comments → Draft V.2 (23/05/2019) will be reviewed by the WG.
- Final version (V.2) will be circulated to 5 EURL-NRL networks for information.





## Guidance document for organisation PTs by NRLs (II)

- Document gives <u>guidance</u>, for:
  - Criteria for NRLs to organise PTs in their scope and to assess performances of official national laboratories (OLs);
  - Criteria to outsource (parts of) PTs;
  - Criteria to select PT providers.
- Organisation of PTs by NRLs is MS responsibility. In case of outsourcing parts of PTs, National Competent Authority shall approve.
- Possible reasons for outsourcing (parts of) PTs:
  - Too small or too large network;
  - Economic aspects;
  - Lack of human resources.





# Guidance document for organisation PTs by NRLs (III)

- Steps which may be outsourced:
  - Steps related to test samples (preparation, hom/stab studies, mailing of samples);
  - Analysis of the results of participants; calculation of individual performance results, preparation of PT report.
- Not to be outsourced:
  - Follow-up of results of the participants;
  - Identification of corrective actions by labs concerned;
  - Assessment of corrective actions by NRL.







# Activity 3

'To Provide scientific and technical assistance to the European Commission and other organisations.'

# Sub-activity 3.1 Scientific advice and support of EC and other organisations

#### Objectives:

- Provide scientific and technical assistance to EC DG SANTE for the relevant work field.
- Provide assistance to DG SANTE, EFSA and (NRLs of) Member States in case of (international) Salmonella outbreaks.
- Collaborate with EFSA and ECDC for the relevant work field.
- Cooperation with other biological EURLs.



### Sub-Activity 3.1 Scientific advice and support EC

#### Description:

- Ad hoc scientific and technical assistance of DG SANTE;
- Participation in working groups/scientific committees of DG SANTE, EFSA, like EFSA-ECDC Steering Committee of molecular database;
- Curation of PFGE data in EFSA molecular database;
- Assistance of DG SANTE, EFSA, NRLs and ECDC in case of outbreaks, e.g consultation of NRL network for specific info, (sub)typing of suspect isolates (MLVA, NGS), analysis of data.







# Activity 4 Reagents and reference collections

# Sub-activity 4.1 Reference strains and reference materials

#### Objectives:

 Supply information on available culture collections and suppliers of microbiological reference materials.

#### Description:

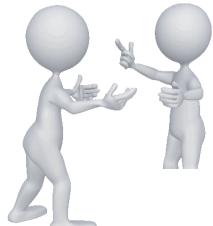
- Provide link to WKLM scheme, keep contacts with WHO ref centre;
- Reference to culture collections and reference materials at website;
- Maintenance in-house culture collection;
- Provide sets of reference strains (SE and STm) for MLVA typing;
- Subactivity 4.1 is merged with 2.3 (support NRLs; keeping information on website up to date).





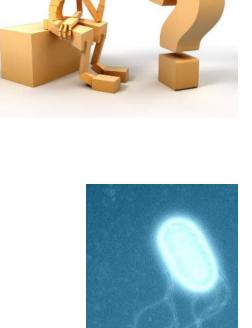
# Other subjects to discuss??

















### Closure

- Presentations soon on website allowed to publish all?
- Make sure you have signed the attendance lists.
- Please complete evaluation form and hand over to EURL.
- Make sure you have checked the list with contact names and addresses of the NRLs.
- Make sure to send <u>electronically</u> completed (and signed) declaration form, together with boarding passes and all invoices <u>by e-mail</u> (scans), to EURL-Salmonella at latest by 21 June 2019. Mind: no receipts → no reimbursement
- For the ones who gave a presentation(s): please send abstract(s) as soon as possible, at latest by 28 June 2019.
- Before leaving we will have lunch.
- Direct trains to Schiphol Airport, leave Amersfoort at -:10 and -:40, platform 7 (43 min).





# THANK YOU!!

- European Commission
- Speakers
- Participants
- Noël Peters
- Jeanette van Essen
- EURL-staff



Safe journey home!!





