

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-18 13:03:47

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Salmonellosis
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Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Antonia Ricci
Name (including Title and Position) of OIE Reference Expert:	Dr. Antonia Ricci - Director - Istituto Zooprofilattico Sperimentale delle Venezie
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)

Yes

Diagnostic Test	Indicated in OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
no	not applicable	not applicable	not applicable
Direct diagnostic tests			
Isolation	yes	2112	
serotyping (slide agglutination)	yes	2060	
genosertotyping	no	704	65
PCR (sevar detection)	no	295	
MLVA	no	609	
PFGE	no	68	
WGS	no	350	
Identification of Salmonella vaccinal strains	no	77	

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by the OIE?

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents

to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
NORTH MACEDONIA (REP. OF)	Support on diagnostic methods to differentiate wild and vaccinal Salmonella isolates	remote - email correspondence
ROMANIA	Support on diagnostic molecular methods for identification of Salmonella serovars	remote - email correspondence
THE NETHERLANDS	Support on diagnostic method to genoserotype Salmonella	remote - email correspondence
IRAN	Support on preparation of documents for obtaining funding/authorization for a training period	remote - email correspondence
CHILE	Support on preparation of documents for a training period	remote - email correspondence
NIGERIA	Assistance in scientific paper revision before submission to a peer-review journal	remote - email correspondence

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
The Laboratory collects data on Salmonella strains isolated from samples related to the veterinary sector (isolated from feed, food and animals) at national level and these data are available for surveillance purposes at national and international level

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:
The laboratory contributes to the data collection in the framework of the EFSA molecular typing database and provides on request data to EURL in case of multi-country outbreaks

**13. What method of dissemination of information is most often used by your laboratory?
(Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 3

Mastrorilli E., Petrin S., Orsini M., Longo A., Cozza D., Luzzi I., Ricci A., Barco L., Losasso C. (2020) Comparative genomic analysis reveals high intra-serovar plasticity within Salmonella Napoli isolated in 2005-2017. BMC Genomics 21(1):202-020-6588-y.

Orsini M., Di Liddo R., Valeriani F., Mancin M., D'Inca R., Castagnetti A., Aceti A., Parnigotto P.P., Romano Spica V., Michetti F. (2020) In Silico Evaluation of Putative S100B Interacting Proteins in Healthy and IBD Gut Microbiota. Cells 9(7):E1697.

Rima El Hage, C. Losasso, A. Longo, S. Petrin, A. Ricci, F. M. Ziad, A. Khattar, Y. El Rayess. Whole genome characterization of TEM-1 and CMY-2 β -lactamase-producing Salmonella Kentucky ST198 in Lebanese broiler chain. Journal of Global Antimicrobial Resistance, In press.

b) International conferences: 0

c) National conferences: 1

Leati M. and Civin V. Salmonella in the poultry chain at national level, epidemiological and legislative aspects"

d) Other:

(Provide website address or link to appropriate information) 1

www.izsvenezie.com

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
17025	Accreditation Certificate 17025.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Isolation and identification of Salmonella in food and primary production samples	ACCREDIA, Italian Accreditation Body
Serotyping of Salmonella strains	ACCREDIA, Italian Accreditation Body
Molecular serotyping of Salmonella strains	ACCREDIA, Italian Accreditation Body
PCR to differentiate S. Typhimurium and its monophasic variants	ACCREDIA, Italian Accreditation Body
Real Time PCR to detect Salmonella in food and feed	ACCREDIA, Italian Accreditation Body
Test to identify Salmonella vaccine strain Salmonella Enteritidis 441/014 (ade/his)	ACCREDIA, Italian Accreditation Body
Pulsed Field Gel Electrophoresis	ACCREDIA, Italian Accreditation Body

17. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

*(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)***ToR 9: To organise and participate in scientific meetings on behalf of the OIE**

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

20. Did your laboratory exchange information with other OIE Reference Laboratories designated for the same pathogen or disease?

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

No

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at:
<http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Assess laboratories capability to isolate Salmonella in primary production samples (organiser)	61	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Assess laboratories capability to serotype Salmonella strains (organiser)	18	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Assess laboratories capability to isolate Salmonella in primary production and environmental samples (participant)	not available	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Assess laboratories capability to serotype Salmonella strains (participant)	not available	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Assess laboratories capability to characterize Salmonella strains by PFGE - MLVA and WGS(participant)	not available	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
Participation in an OIE and hoc expert group evaluating the validation of a Salmonella serotyping test	Remote assistance	OIE validation
Collaboration with the other OIE reference laboratories for the revision of the OIE Terrestrial Manual, chapter on Salmonellosis	Remote assistance	

25. Additional comments regarding your report:

