WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 24 avril 2023 15:17

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Mammalian tuberculosis |
| Address of laboratory: | Laboratoire National de Référence Tuberculose, Unité Zoonoses Bactériennes, Laboratoire de Santé Animale de Maisons-Alfort, ANSES 14, rue Pierre et Marie Curie, 94701 Maisons-Alfort Cedex France |
| Tel.: | +33149771321 |
| E-mail address: | maria-laura.boschirol@anses.fr |
| Website: | https://www.anses.fr/fr |
| Name (including Title) of Head of Laboratory (Responsible Official): | Dr. Pascal BOIREAU, Head of the Animal Health Laboratory, Anses, Maisons-Alfort |
| Name (including Title and Position) of WOAH Reference Expert: | Dr. Maria Laura Boschirol-Cara, Research Director, Head of the Tuberculosis National Reference Laboratory |
| Which of the following defines your laboratory? Check all that apply: | Governmental Research agency |

TOR1: DIAGNOSTIC METHODS

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

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in WOAH Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nationally</td>
<td>Internationally</td>
</tr>
<tr>
<td>Indirect diagnostic tests</td>
<td>YES</td>
<td>2</td>
</tr>
</tbody>
</table>
### TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?  
   No

3. Did your laboratory supply standard reference reagents (non-WOAH-approved) and/or other diagnostic reagents to WOAH Members?  
   Yes

<table>
<thead>
<tr>
<th>TYPE OF REAGENT AVAILABLE</th>
<th>RELATED DIAGNOSTIC TEST</th>
<th>PRODUCED/PROVIDE</th>
<th>AMOUNT SUPPLIED NATIONALLY (ML, MG)</th>
<th>AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)</th>
<th>NO. OF RECIPIENT WOAH MEMBER COUNTRIES</th>
<th>COUNTRY OF RECIPIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plasma containing bovine IFNg</td>
<td>IFNg test (Elisa)</td>
<td>Bovine tuberculosis national reference laboratory</td>
<td>33 units (1 ml each)</td>
<td>0</td>
<td>1</td>
<td>Europe</td>
</tr>
<tr>
<td>Crushed lymph node spiked with titrated M. bovis</td>
<td>molecular diagnosis-PCR</td>
<td>Bovine tuberculosis national reference laboratory</td>
<td>7 units (1,8 ml each)</td>
<td>0</td>
<td>1</td>
<td>Europe</td>
</tr>
<tr>
<td>Lyophilised TB positive Suidae serum</td>
<td>Serology (Elisa)</td>
<td>Bovine tuberculosis national reference laboratory</td>
<td>14 units</td>
<td>0</td>
<td>1</td>
<td>Europe</td>
</tr>
<tr>
<td>Infected suidae blood-soaked filter papers</td>
<td>Serology (Elisa)</td>
<td>Bovine tuberculosis national reference laboratory</td>
<td>20 units</td>
<td>0</td>
<td>1</td>
<td>Europe</td>
</tr>
</tbody>
</table>

4. Did your laboratory produce vaccines?  
   No

5. Did your laboratory supply vaccines to WOAH Members?  
   No

### TOR3: NEW PROCEDURES
6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?  
No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?  
No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?  
No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?  
No

**TOR4: DIAGNOSTIC TESTING FACILITIES**

10. Did your laboratory carry out diagnostic testing for other WOAH Members?  
No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?  
Yes

<table>
<thead>
<tr>
<th>NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY</th>
<th>PURPOSE</th>
<th>HOW THE ADVICE WAS PROVIDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELGIUM</td>
<td>IGRA test (SOP)</td>
<td>Advice expertise (SOP)</td>
</tr>
<tr>
<td>MOROCCO</td>
<td>TB diagnostics (direct-indirect) and genotyping</td>
<td>Advice expertise (SOP)</td>
</tr>
<tr>
<td>UNITED KINGDOM</td>
<td>TB direct diagnostics</td>
<td>Advice expertise (SOP)</td>
</tr>
<tr>
<td>CONGO (REP. OF THE)</td>
<td>TB diagnostics (direct-indirect)</td>
<td>Advice expertise (SOP)</td>
</tr>
</tbody>
</table>

**TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?  
Yes

<table>
<thead>
<tr>
<th>Title of the study</th>
<th>Duration</th>
<th>PURPOSE OF THE STUDY</th>
<th>PARTNERS (INSTITUTIONS)</th>
<th>WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innotub-Poctefa</td>
<td>3 years</td>
<td>To create a scientific network of excellence to improve the control and surveillance of tuberculosis in livestock and wildlife in the trans-Pyrenees region.</td>
<td>ANSES Laboratoire de Santé animale, UZB ANSES, Ecole nationale vétérinaire de Toulouse (ENVT), Institut de Recerca i Tecnologia Agroalimentàries (IRTA), Universitat Autònoma de Barcelona (UAB), Institut basque de recherche et de développement agricole (NEIKER)</td>
<td>SPAIN</td>
</tr>
</tbody>
</table>
Consortium ZOE - Zoonoses under a One health perspective in the EU
4 years
production of the EU One Health Zoonoses report and in related zoonoses online interactive data visualisation dashboards and zoonoses story maps
ISZ-ISS
ITALY

**TOR6: EPIZOOLOGICAL DATA**

14. Did your Laboratory collect epidemiological data relevant to international disease control?
Yes

**IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:**

Second line analyses confirming TB outbreaks in different wild or domestic-livestock species. Gengotypic characterisation of TB causative agents.

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?
Yes

**IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:**


16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

6


b) International conferences:

15


Invited:


Boschirolı, M. L. 2022. “Programa de erradicación de tuberculosis bovina en Francia.” Acto final del primero proyecto de la red Innotub, Barcelona, Spain, 31/05/22.

c) National conferences:

2

Charles, C. 2022. “New Mycobacterium bovis complete genomes of different clonal complexes to improve molecular epidemiology studies of French field strains.” communication orale avec acte Journées ABIES.

d) Other (Provide website address or link to appropriate information):

pHD Thesis (1)

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

No

TOR 8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 17025</td>
<td>1-2246 (1).pdf</td>
</tr>
</tbody>
</table>
19. Is your quality management system accredited?
Yes

<table>
<thead>
<tr>
<th>Test for which your laboratory is accredited</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR</td>
<td>COFRAC</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>COFRAC</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?
Yes
A biorisk department is in place in our institution. Our lab follows the guidelines layed out by the local biorisk manager, which in turn are based on WHO's Laboratory biosafety guidelines and those for "highly dangerous pathogens" issued from French regulations.

**TOR9: SCIENTIFIC MEETINGS**

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?
No
22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?
No

**TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?
Yes
24. Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?
No
25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
No
26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
Yes

<table>
<thead>
<tr>
<th>TITLE OF THE PROJECT OR CONTRACT</th>
<th>SCOPE</th>
<th>NAME(S) OF RELEVANT WOAH REFERENCE LABORATORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIE Project to Replace the International Standard for Bovine Tuberculin (ISBT)</td>
<td>Evaluate, calibrate and validate a replacement for the OIE’s International Standard for Bovine Tuberculin (ISBT)</td>
<td>Argentina, United Kingdom</td>
</tr>
</tbody>
</table>

**TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING**

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen?
Yes

<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test</th>
<th>Role of your reference</th>
<th>No. participating</th>
<th>Region(s) of participation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
comparisons1  laboratory (organizer/participant)  laboratories  participating WOAH Member Countries

| Serodiagnosis of TB in suidae (ORGANISER) | organiser | 14 | Europe |
| Interferon gamma test (Elisa) | organiser | 16 | Europe |
| Interferon gamma test (Elisa) | participant | 14 | Europe |
| Bacteriology/PCR | participant | 27 | Europe |

**TOR12: EXPERT CONSULTANTS**

28. Did your laboratory place expert consultants at the disposal of WOAH?
No

29. Additional comments regarding your report:
No