**WOAH Reference Laboratory Reports Activities 2023**

**Activities in 2023**

This report has been submitted: 1 juillet 2024 15:46

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### Laboratory Information

**Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:**

Swine Vesicular Disease Virus

**Address of laboratory:**

Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna (IZSLER) Via A. Bianchi No 9, 25124 Brescia, Italy

**Tel.:**

0302290614

**E-mail address:**

giulia.pezzoni@izsler.it

**Website:**

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**Name (including Title) of Head of Laboratory (Responsible Official):**

Dr. Giorgio Varisco

**Name (including Title and Position) of WOAH Reference Expert:**

Dr. Giulia Pezzoni

**Which of the following defines your laboratory? Check all that apply:**

Governmental

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### 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>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competitive ELISA</td>
<td>Yes</td>
<td>12229 (Nationally) 0 (Internationally)</td>
</tr>
<tr>
<td>IgG-specific ELISA</td>
<td></td>
<td>1 (Nationally) 0 (Internationally)</td>
</tr>
<tr>
<td>IgM-specific ELISA</td>
<td></td>
<td>1 (Nationally) 0 (Internationally)</td>
</tr>
<tr>
<td>Virus Neutralization Test</td>
<td></td>
<td>1 (Nationally) 0 (Internationally)</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real time RT-PCR (3D-fragment)</td>
<td></td>
<td>3 (Nationally) 0 (Internationally)</td>
</tr>
</tbody>
</table>

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### 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 (nonWOAH-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 NATIONALY (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>Assembled reagents for 5B7-competitive ELISA (capture and conj)</td>
<td>5B7-Competitive ELISA</td>
<td>For testing of 50,500</td>
<td>For testing of 12,900</td>
<td>CZECH REPUBLIC,</td>
<td></td>
<td></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>ITALY</td>
<td>Technical consultancy to laboratories and local veterinary services for lab results interpretations and follow-up activities</td>
<td>Technical explanations and advice</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?
No
13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?
No

**TOR6: EPIZOOLOGICAL DATA**

14. Did your Laboratory collect epidemiological data relevant to international disease control?
No
15. Did your laboratory disseminate epidemiological data that had been processed and analysed?
No
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:
b) International conferences:

c) National conferences:

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

**TOR7: SCIENTIFIC AND TECHNICAL TRAINING**

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

No

**TOR8: 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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 17025</td>
<td>see attached file</td>
<td>CERTIFICATO-DI-ACCREDITAMENTO.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>5B7-Competitive ELISA (WOAH prescribed test for screening)</td>
<td>Accredia - Italy System Accreditation Service</td>
</tr>
<tr>
<td>Virus Neutralizazion Test</td>
<td>Accredia - Italy System Accreditation Service</td>
</tr>
<tr>
<td>Sandwich ELISA for antigen detection (mAbs-based)</td>
<td>Accredia - Italy System Accreditation Service</td>
</tr>
<tr>
<td>Conventional RT-PCR 3D-gene</td>
<td>Accredia - Italy System Accreditation Service</td>
</tr>
<tr>
<td>Real Time RT PCR 3D-gene</td>
<td>Accredia - Italy System Accreditation Service</td>
</tr>
<tr>
<td>The other tests in use (Virus isolation, IgG and IgM ELISA) are IZSLER-coded tests</td>
<td>Subject to regular internal and external QC</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

Yes

At IZSLER, SVDV is manipulated in a BSL3+ bio-risk level laboratory. For further details see WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4.

**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. Do you network (collaborate or share information) with other 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?
Yes

| PURPOSE OF THE PROFICIENCY TESTS | ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT) | NO. PARTICIPANTS | PARTICIPATING WOAH REF. LABS/ ORGANISING WOAH REF. LAB.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Proficiency Test 2023, organized by the FMD-EURL (ANSES-France &amp; Sciensano-Belgium), included the evaluation of laboratory capability to early detection and differential diagnosis of FMD/SVD outbreaks using virological and serological methods. Testing panels comprised live viruses for FMDV/SVDV detection, typing and sequencing and serum samples for SVD serological tests.</td>
<td>EURL-FMDV</td>
<td>&gt;30</td>
<td>Participating Labs: NRLs of EU member countries, the OIE Reference Lab for SVD, The Pirbright Institute-UK and some EU candidate countries Organising labs: ANSES (France) &amp; Sciensano (Belgium)</td>
</tr>
</tbody>
</table>

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?
No

**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 comparisons</th>
<th>Role of your reference laboratory (organizer/participant)</th>
<th>No. participating laboratories</th>
<th>Name of the Test</th>
<th>WOAH Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organisation of the annual inter-laboratory test to monitor the harmonisation and performance of the 5B7- competitive ELISA for SVDV Ab detection carried out in 10 Italian regional laboratories for the national surveillance plan.</td>
<td>Organizer: Italian National Reference Laboratory for vesicular diseases Participants: Italian regional laboratories</td>
<td>10</td>
<td>5B7-Competitive ELISA (WOAH prescribed test for screening)</td>
<td>ITALY</td>
</tr>
</tbody>
</table>

**TOR12: EXPERT CONSULTANTS**

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

29. Additional comments regarding your report:
No