WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted: 28 mai 2024 02:26

Laboratory Information

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

Address of laboratory: 6-20-1 Josui-Honcho Kodaira Tokyo 187-0022

Tel.: +81-42 321 1441

E-mail address: fukai@affrc.go.jp

Website: https://www.naro.go.jp/laboratory/niah/index.html

Name (including Title) of Head of Laboratory (Responsible Official): Ken Katsuda, Director

Name (including Title and Position) of WOAH Reference Expert: Katsuhiko Fukai, D.V.M., Ph.D., Manager, Division of Transboundary Animal Disease Research

Which of the following defines your laboratory? Check all that apply: 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></td>
<td></td>
</tr>
<tr>
<td>Neutralization test</td>
<td>Yes</td>
<td>970</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>370</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virus isolation</td>
<td>No</td>
<td>49</td>
</tr>
<tr>
<td>Genetic typing</td>
<td>No</td>
<td>229</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 (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 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>Conventional RT-PCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DNA as positive control for CSFV RNA detection (Vilcek et al., 1994, Arch. Virol., 136, 309–323.)

Produced and provided 50 samples of 1 set

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DNA</td>
<td>JAPAN,</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?
Yes

<table>
<thead>
<tr>
<th>NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED</th>
<th>DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solution N</td>
<td>Preparation method of blood, highly colored serum, and highly turbid specimens that were previously unsuitable for real-time RT-PCR testing for classical swine fever <a href="https://catalog.takara-bio.co.jp/product/basic_info.php?unitid=U100009568">https://catalog.takara-bio.co.jp/product/basic_info.php?unitid=U100009568</a></td>
</tr>
</tbody>
</table>

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?
Yes

<table>
<thead>
<tr>
<th>NAME OF THE NEW VACCINE DEVELOPED</th>
<th>DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>vGPE-/PAPEV Ems, vGPE-/PhoPEV Ems</td>
<td><a href="https://www.mdpi.com/1999-4915/15/7/1587">https://www.mdpi.com/1999-4915/15/7/1587</a></td>
</tr>
</tbody>
</table>

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 a 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>THAILAND</td>
<td>Methods of evaluating CSF attenuated vaccine efficacy</td>
<td>Face-to-face</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:

2


b) International conferences:

2


c) National conferences:

1


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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0
b) Seminars : 0
c) Hands-on training courses: 0
d) Internships (>1 month) 1

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>THAILAND</td>
<td>1</td>
</tr>
</tbody>
</table>

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>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO17025</td>
<td>ISO17025_certificate.pdf</td>
<td>Japan Accreditation Board</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>CSFV RT-PCR</td>
<td>Japan Accreditation Board</td>
</tr>
</tbody>
</table>

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

Yes
Our high-containment facility is compliant with the containment level for group 4 pathogens described in the WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2023.

**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?
Yes

<table>
<thead>
<tr>
<th>Title of event</th>
<th>Date (mm/yy)</th>
<th>Location</th>
<th>Role (speaker, presenting poster, short communications)</th>
<th>Title of the work presented</th>
</tr>
</thead>
<tbody>
<tr>
<td>The 8th International Symposium on Emerging and Re-Emerging Pig Diseases</td>
<td>2023-06-05</td>
<td>Bangkok, Thailand</td>
<td>Speaker</td>
<td>Maternal antibody titers for protection against infection and clinical manifestations caused by recent Japanese classical swine fever virus</td>
</tr>
<tr>
<td>2023 International Symposium for Classical Swine Fever and Other Important Swine Infectious Diseases</td>
<td>2023-11-29</td>
<td>Wuhan, China</td>
<td>Speaker</td>
<td>Maternal antibody titers for protection against infection and clinical manifestations caused by recent Japanese classical swine fever virus</td>
</tr>
</tbody>
</table>

**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?
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?
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?
No

**TOR12: EXPERT CONSULTANTS**

28. Did your laboratory place expert consultants at the disposal of WOAH?
Yes

<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACULTATIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision and update the WOAH Terrestrial Manual, Classical swine fever virus (infection with classical swine fever virus) Chapter 03.09.03</td>
<td>Remote</td>
<td>Revision and update</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
No