WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted: 28 mai 2024 10:47

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Rabies |
| Address of laboratory: | 177 Hyeoksin 8-ro Gimcheong-si Gyeongsangbuk-do 39660 |
| Tel: | +82 54.912.0785 |
| E-mail address: | yangdk@korea.kr |

Website:

Name (including Title) of Head of Laboratory (Responsible Official): Jung-hee Kim (commissioner of Animal and Plant Quarantine Agency: APQA)

Name (including Title and Position) of WOAH Reference Expert: Dong-Kun Yang (Senior scientist of Animal and Plant Quarantine Agency: APQA)

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

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>Virus Neutralization test</td>
<td>Nationally</td>
<td>346</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td>Nationally</td>
<td>Internationally</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?

   No

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?

WOAH Reference Laboratory Reports Activities 2023
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>UNITED STATES OF AMERICA</td>
<td>Eradication of rabies in wild animals</td>
<td>E-mail</td>
</tr>
<tr>
<td>INDIA</td>
<td>To cooperate serological test, FAVN test</td>
<td>E-mail</td>
</tr>
<tr>
<td>PHILIPPINES</td>
<td>To consult real time RT-PCR condition for rabies</td>
<td>E-mail</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?
Yes

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

Collect rabies related data from the five country(Kazakhstan, Malaysia, Vietnam, Sri Lanka, Philippines) and disseminate the strategy to control rabies with person in charge

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:**

We disseminated epidemiological data with publication titled as Rabies neutralizing antibody titers in Korea dogs and cats intended for overseas travel

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

Rabies neutralizing antibody titers in Korea dogs (2367) and cats (894) intended for overseas travel.
(Dong-Kun Yang et. al Korean J Vet Res 2023 63(2) e13)
Rabies vaccine development trends (ANI-Med, 2023. Summer)

b) International conferences:
c) National conferences:

2
1) Education on distributing rabies bait vaccine (Gangwon diagnostic lab)
2) Transfer of technical training for development of rabies serum diagnostic kit (Bionote Ltd company)

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: 1
b) Seminars: 0
c) Hands-on training courses: 12
d) Internships (>1 month): 0

<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>A</td>
<td>VIETNAM</td>
<td>1</td>
</tr>
<tr>
<td>C</td>
<td>KAZAKHSTAN</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>MALAYSIA</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>VIETNAM</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>SRI LANKA</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>PHILIPPINES</td>
<td>2</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>ISO 17025</td>
<td>KT372_Animal and Plant Quarantine Agency_Eng.pdf</td>
<td>KOLAS</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>DFA</td>
<td>KOLAS</td>
</tr>
<tr>
<td>RT-PCR</td>
<td>KOLAS</td>
</tr>
<tr>
<td>FAVN</td>
<td>KOLAS</td>
</tr>
<tr>
<td>ELISA</td>
<td>KOLAS</td>
</tr>
</tbody>
</table>

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

According to the ISO/IEC 17025, we manage the biorisk.

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?
   Yes

<table>
<thead>
<tr>
<th>NETWORK/DISEASE</th>
<th>ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)</th>
<th>NO. PARTICIPANTS</th>
<th>PARTICIPATING WOAH REF. LABS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabies</td>
<td>participant and sharing information with members</td>
<td>12</td>
<td>USA, India, England, Germany, France, China, Mexico, Israel etc.</td>
</tr>
</tbody>
</table>

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>Eradication of rabies</td>
<td>In the world</td>
<td>WOAH RABLAB meeting</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
   Yes
   In Republic of Korea (ROK), animal rabies has not occurred since 2014. And there are no reports of suspected rabies cases. And it is not easy to move suspected rabies samples between countries. Therefore, please note that there is no rabies antigen test in this report. When it comes to rabies vaccine, five biologic companies in ROK have produced attenuated of inactivated rabies vaccines and supplied them to animal clinics. As reported in the animal report-2022, our laboratory developed a rabies bait vaccine and transferred the technology to a vaccine manufacturer in 2023. The rabies bait vaccine on sale since March 2024.