WOAH Reference Laboratory Reports Activities 2022

Activities in 2022
This report has been submitted : 8 mai 2023 09:47

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Infection with Aphanomyces astaci (crayfish plague) |
| Address of laboratory: | Ruokavirasto Kuopio, Neulaniemieste 4 FI-70210 Kuopio, Finland |
| Tel.: | +358 44 7201469 |
| E-mail address: | satu.viljamaa-dirks@ruokavirasto.fi |
| Website: | www.ruokavirasto.fi |
| Name (including Title of Head of Laboratory (Responsible Official)): | Dr. Riikka Holopainen |
| Name (including Title and Position of WOAH Reference Expert): | Dr. Satu Viljamaa-Dirks, chief scientist |
| Which of the following defines your laboratory? Check all that apply: | Governmental |

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>no</td>
<td>0</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td>culture yes</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>realtime PCR yes</td>
<td>14</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>extracted DNA of A. astaci</td>
<td>PCR</td>
<td>own</td>
<td>0</td>
<td>11x 0.1 ml</td>
<td>4</td>
<td>Europe</td>
</tr>
<tr>
<td>viable culture of crayfish plague agent A. astaci</td>
<td>culture, PCR</td>
<td>own</td>
<td>0</td>
<td>4x 1 ml</td>
<td>3</td>
<td>Europe</td>
</tr>
</tbody>
</table>

4. Did your laboratory produce vaccines?
Not applicable

5. Did your laboratory supply vaccines to WOAH Members?
Not applicable

**TOR3: NEW PROCEDURES**

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?
Yes

7. Did your laboratory validate diagnostic methods according to WOAH Standards 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>improved qPCR (15F_61T_145R)</td>
<td>existing PCR improved to exclude the species A. fennicus. Publication in Journal of Invertebrate Pathology pending</td>
</tr>
</tbody>
</table>

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>GREECE POLAND SWEDEN SWITZERLAND</td>
<td>advice in diagnostic methods</td>
<td>by email</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>Improving the qPCR method for the diagnosis of A. astaci</td>
<td>ongoing</td>
<td>to solve the specificity problem in PCR</td>
<td>NVI. SVA. Finnish Food Authority</td>
<td>NORWAY SWEDEN</td>
</tr>
</tbody>
</table>

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:

ongoing collection of data concerning the distribution of crayfish plague in Finland

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:

verified crayfish plague epidemics published in www.ruokavirasto.fi

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:

*none in 2022*

b) International conferences:

*none in 2022*

c) National conferences:

*none in 2022*
d) Other (Provide website address or link to appropriate information):

https://vieraslajit.fi/lajit/MX.52911
Finnish website for invasive species

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>ISO17025</td>
<td>pdf</td>
<td>T014 M48 2022 04.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>culture method</td>
<td>FINAS</td>
</tr>
</tbody>
</table>

20. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?
No

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?
Not applicable (only WOAH Reference Laboratory designated for the disease)

24. Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?
Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
Not applicable (Only WOAH Reference Laboratory designated for the disease)

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?
Not applicable (Only WOAH Reference Laboratory designated for the disease)

**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>review and preparation of text and expert opinion</td>
<td>written</td>
<td>Updating the Aquatic manual</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
No