# Laboratory Information

| **Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:** | **Q fever** |
| **Address of laboratory:** | **Partyzantów 57 Avenue, 24-100 Pulawy, Poland** |
| **Tel.:** | **+48818893274** |
| **E-mail address:** | **agnieszka.jodelko@piwet.pulawy.pl** |
| **Website:** | **https://www.piwet.pulawy.pl/** |
| **Name (including Title and Position) of WOAH Reference Expert:** | **Professor Krzysztof Niemczuk, dr Agnieszka Jodelko, assistant professor (replaced professor K. Niemczuk as WOAH expert 26/03/2024)** |

**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><strong>Indirect diagnostic tests</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td>Yes</td>
<td>Nationally: 1070</td>
</tr>
<tr>
<td><strong>Direct diagnostic tests</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>real-time PCR</td>
<td>Yes</td>
<td>Nationally: 481</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>Positive serum</td>
<td>ELISA</td>
<td>PRODUCED</td>
<td>4 ml</td>
<td>-</td>
<td>1</td>
<td>POLAND,</td>
</tr>
<tr>
<td>Negative serum</td>
<td>ELISA</td>
<td>PRODUCED</td>
<td>1,5 ml</td>
<td>-</td>
<td>1</td>
<td>POLAND,</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?
No

**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?
Yes

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

The laboratory informed the Veterinary Inspection about every positive result of ELISA and/or real-time PCR test. Moreover information about epidemiological data (e.g. seroprevalence, prevalence, number of tested animals/herds) was presented at conferences and veterinary specialization trainings.

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:

Lecture "Coxiella burnetii - current epidemiological situation and influence of infection on production parameters of cattle". XVII International Buiatrics Conference, Poland, Puławy 2023.05.26-27

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

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**TOR7: SCIENTIFIC AND TECHNICAL TRAINING**

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?
No

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**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>
</tr>
</thead>
</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>ELISA</td>
<td>Polish Centre for Accreditation</td>
</tr>
<tr>
<td>real-time PCR</td>
<td>Polish Centre for Accreditation</td>
</tr>
</tbody>
</table>

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

Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4

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**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

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**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

<table>
<thead>
<tr>
<th>PURPOSE OF THE PROFICIENCY TESTS</th>
<th>ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)</th>
<th>NO. PARTICIPANTS</th>
<th>PARTICIPATING WOAH REF. LABS/ ORGANISING WOAH REF. LAB.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q FEVER SEROLOGY ON SERUM BY ELISA</td>
<td>PARTICIPANT</td>
<td>81</td>
<td>ORGANISED BY WOAH REFERENCE LABORATORY FOR Q FEVER, ANSES, SOPHIA ANTIPOLIS</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 comparisons1</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>Qualitative ELISA proficiency</td>
<td>PARTICIPANT</td>
<td>24</td>
<td>Detection of Coxiella burnetii-specific antibodies using Enzyme linked immunosorbent assay (ELISA).</td>
<td>GERMANY, POLAND,</td>
</tr>
<tr>
<td>Qualitative PCR proficiency</td>
<td>PARTICIPANT</td>
<td>27</td>
<td>Detection of Coxiella burnetii by DNA extraction and real-time PCR.</td>
<td>GERMANY, POLAND,</td>
</tr>
<tr>
<td>Qualitative ELISA proficiency</td>
<td>ORGANISER</td>
<td>14</td>
<td>Serological diagnosis of Q fever using Enzyme linked immunosorbent assay (ELISA)</td>
<td>POLAND,</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