

# WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 23 janvier 2025 10:13

## LABORATORY INFORMATION

<b>*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:</b>	Q fever
<b>*Address of laboratory:</b>	Partyzantów 57 Avenue, 24-100 Puławy, Poland
<b>*Tel:</b>	+48818893274
<b>*E-mail address:</b>	agnieszka.jodelko@piwet.pulawy.pl
<b>Website:</b>	<a href="https://www.piwet.pulawy.pl/">https://www.piwet.pulawy.pl/</a>
<b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>	Professor Stanisław Winiarczyk, DVM, PhD, ScD
<b>*Name (including Title and Position) of WOAH Reference Expert:</b>	dr Agnieszka Jodelko, DVM, assistant professor
<b>*Which of the following defines your laboratory? Check all that apply:</b>	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

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA	Yes	398	0
Direct diagnostic tests		Nationally	Internationally
real-time PCR	Yes	169	0

## TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOA?H?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA?H Members?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOA?H Member Countries	Country of recipients
Positive serum	ELISA	Produced	2.5 ml	0	1	POLAND,
Negative serum	ELISA	Produced	2.5 ml	0	1	POLAND,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA?H 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 WOA?H 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 WOA?H Standards for the designated pathogen or disease?

No

## TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA?H Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOA?H Member?

Yes

Name of the WOA?H Member Country receiving a technical consultancy	Purpose	How the advice was provided
NEW CALEDONIA	Inquiry about supplying of reagents for CFT test	By e-mail

## TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA?H Members other than the own?

No

13. In exercising your activities, have you identified any regulatory research needs\* relevant for WOA?

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:

The laboratory serves as National Reference Laboratory for Q fever disease and it is the only laboratory in the country that ultimately confirms Q fever cases in animals in Poland i.e. by performing serological and molecular confirmatory test of samples collected by veterinary authorities in the range of national Q fever surveillance.

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:

The laboratory informed 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 trainings for veterinarians and veterinary inspection employees.

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:

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Jodelko A., Szymańska-Czerwińska M., Niemczuk K.:

"Q fever – epizootic situation in cattle in Poland in 2021-2023" XVII Congress of Polish Society of Veterinary Sciences "Sanitas Animalium Pro Salute Homini", 19-21.09.2024, Olsztyn, Poland

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 WOAHP Members?

No

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC 17025:2018-02 Management System	pdf	certifikat AB1090.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA	Polish Centre for Accreditation
real-time PCR	Polish Centre for Accreditation

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

Yes

NVRI maintains a complete and functioning laboratory biological risk management system, which ensures that the laboratory is in compliance with applicable national and international standards and requirements for biosafety and laboratory biosecurity.

## TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAHP?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAHP?

No

## TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAHP Reference Laboratories designated for the same pathogen or disease?

Yes

24. Do you network (collaborate or share information) with other WOAHP Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS

**Agnieszka Jodelko - - POLAND**

Q fever	Partner	2	WOAH Reference Laboratory for Q fever disease, ANSES (French Agency for Food, Environmental and Occupational Health & Safety) Sophia-Antipolis Laboratory, Animal Q fever, 105, route des Chappes, BP 111, 06902 Sophia-Antipolis
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25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen during the past 2 years?

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOAH Ref. Labs/ organising WOAH Ref Lab
PCR detection and/or quantification of <i>Coxiella burnetii</i> for the diagnosis of abortion in ruminants (2024)	Participant	50	Organised by: WOAH Reference Laboratory for Q fever disease, ANSES (French Agency for Food, Environmental and Occupational Health & Safety) Sophia-Antipolis Laboratory, Animal Q fever, 105, route des Chappes, BP 111, 06902 Sophia-Antipolis
Q FEVER SEROLOGY ON SERUM BY ELISA (2023)	Participant	81	Organised by: WOAH Reference Laboratory for Q fever disease, ANSES (French Agency for Food, Environmental and Occupational Health & Safety) Sophia-Antipolis Laboratory, Animal Q fever, 105, route des Chappes, BP 111, 06902 Sophia-Antipolis

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 during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAH Member Countries
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Detection of *Coxiella burnetii*-

### Agnieszka Jodelko - - POLAND

Qualitative ELISA proficiency	Participant (2023)	24	specific antibodies using Enzyme linked immunosorbent assay (ELISA).	GERMANY, POLAND,
Qualitative PCR proficiency	Participant (2023)	27	Detection of Coxiella burnetii by DNA extraction and real-time PCR.	GERMANY, POLAND,
Qualitative ELISA proficiency	Organizer (2023)	14	Serological diagnostic of Q fever using Enzyme linked immunosorbent assay (ELISA)	POLAND,
Qualitative ELISA proficiency	Organizer (2024)	13	Serological diagnostic of Q fever using Enzyme linked immunosorbent assay (ELISA)	POLAND,

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No

*At the end of 2023 designated expert has resigned and in March 2024 The WOA Biological Standards Commission accepted the nomination of new designated expert at the WOA Reference Laboratory for Q fever.*

*Activity of the laboratory in the past year was quite limited, but it results from the fact that we did not receive many inquiries or requests from laboratories in WOA member countries. Indeed, we made every effort to fulfill and answer all of obtained requests.*