

# WOAH Reference Laboratory Reports Activities 2023

## Activities in 2023

This report has been submitted : 28 juin 2024 18:21

### Laboratory Information

<b>Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:</b>	Leptospirosis
<b>Address of laboratory:</b>	Reference Laboratory for Leptospirosis, Amsterdam University Medical Center, Department of Medical Microbiology and Infection Prevention, Meibergdreef 39. 1105 AZ Amsterdam, The Netherlands
<b>Tel.:</b>	+31205665431
<b>E-mail address:</b>	p.ristow@amsterdamumc.nl
<b>Website:</b>	<a href="https://leptospira.amsterdamumc.org/">https://leptospira.amsterdamumc.org/</a>
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr. Paula Carvalho Lage von Buettner Ristow
<b>Name (including Title and Position) of WOAHO Reference Expert:</b>	Dr. Paula Carvalho Lage von Buettner Ristow
<b>Which of the following defines your laboratory? Check all that apply:</b>	Academic institution

### 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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Microscopic Agglutination Test (MAT)		8	0
Direct diagnostic tests			
Bacteriological culture		19	0
Real-time PCR		19	0

### TOR2: REFERENCE MATERIAL

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

No

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

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOAHO MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
						ARGENTINA, AUSTRALIA, BELGIUM,

Rabbit antisera anti-Leptospira	Microscopic Agglutination Test	PRODUCED/ PROVIDE	1 mL	166 mL	1	COSTA RICA, CZECH REPUBLIC, ECUADOR, FRANCE, GERMANY, HONG KONG, HUNGARY, ITALY, KENYA, NEW ZEALAND, NORWAY, SERBIA, SOUTH AFRICA, THE NETHERLANDS, UGANDA, UNITED KINGDOM,
Monoclonal antibodies anti-Leptospira	Microscopic Agglutination Test	PRODUCED/ PROVIDE	0,5 mL	14,5 mL	1	AUSTRALIA, BELGIUM, COSTA RICA, FRANCE, GERMANY, THE NETHERLANDS,
Strains	Microscopic Agglutination Test	PRODUCED/ PROVIDE	3 mL	175 mL	1	ARGENTINA, AUSTRALIA, BARBADOS, BOLIVIA, CZECH REPUBLIC, DENMARK, ECUADOR, ESTONIA, GERMANY, KENYA, NORWAY, SERBIA, SOUTH AFRICA, SWEDEN, THE NETHERLANDS, UGANDA, UNITED KINGDOM,
Culture media	Cultivating strains	PRODUCED/ PROVIDE	0,5 L	26,5 L	1	COSTA RICA, INDONESIA, SERBIA, THE NETHERLANDS, UGANDA, UNITED KINGDOM,

4. Did your laboratory produce vaccines?

No

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

No

### **TOR4: DIAGNOSTIC TESTING FACILITIES**

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

No

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

No

### **TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

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

No

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

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:

Ongoing research collaboration on outbreaks of leptospirosis in Zoo animals

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:

1

*Hamond C, LeCount K, Browne AS, Anderson T, Stuber T, Hicks J, Camp P, Fernandes LGV, van der Linden H, Goris MGA, Bayles DO, Schlater LK, Nally JE. Concurrent colonization of rodent kidneys with multiple species and serogroups of pathogenic Leptospira. Appl Environ Microbiol. 2023 Oct 31;89(10):e0120423. doi: 10.1128/aem.01204-23. Epub 2023 Oct 11.*

b) International conferences:

c) National conferences:

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 WOA?H 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)	
NEN-EN-ISO 15189:2012	M178 Certificate English 20210208	M178 Certificate English 20210208.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Microscopic Agglutination Test	Dutch Accreditation Council
ELISA	Dutch Accreditation Council

PCR	Dutch Accreditation Council
Culture	Dutch Accreditation Council
Typing	Dutch Accreditation Council

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

Yes

Institutional biorisk procedures following national and international standards; also referenced in Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter

1.1.4

## TOR9: SCIENTIFIC MEETINGS

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

No

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

No

## TOR10: NETWORK WITH WOA?H REFERENCE LABORATORIES

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

Yes

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

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOA?H Reference Laboratories designated for the same pathogen?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOA?H REF. LABS/ ORGANISING WOA?H REF. LAB.
MAT proficiency testing	Organiser and participant	2	Leptospira Research Lab ICAR-NIVEDI, India; Leptospirosis Reference Laboratory, University Medical Center, Amsterdam, the Netherlands

26. Did your laboratory collaborate with other WOA?H 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 WOA?H Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOA?H Member Countries
Assessing laboratory performance and verifying the accuracy and reliability of test results	Organizer	91	MAT Proficiency Test	AUSTRALIA, AUSTRIA, BARBADOS, BELGIUM, BRAZIL, CANADA, CHINA (PEOPLE'S REP. OF), COLOMBIA, COSTA RICA, CROATIA, CZECH REPUBLIC, DENMARK, FRANCE, GERMANY, INDIA, INDONESIA, IRAN, ISRAEL, ITALY, MALAYSIA, MEXICO, NEW CALEDONIA, NEW ZEALAND, PHILIPPINES, POLAND, PORTUGAL, SERBIA, SLOVENIA, SPAIN, SRI LANKA, SWEDEN, SWITZERLAND, THAILAND, THE NETHERLANDS, TURKEY, UGANDA, UKRAINE, UNITED KINGDOM, UNITED STATES OF AMERICA, URUGUAY, VIETNAM,

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No