

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 12 juin 2024 13:29

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Contagious agalactia
Address of laboratory:	Istituto Zooprofilattico Sperimentale della Sicilia, via Gino Marinuzzi 3, Palermo Italy 90129
Tel.:	+39-091 656 53 07
E-mail address:	guidoruggero.loria@gmail.com
Website:	www.izssicilia.it
Name (including Title) of Head of Laboratory (Responsible Official):	Dr Guido Ruggero Loria
Name (including Title and Position) of WOAHO Reference Expert:	Dr Guido Ruggero Loria - Director of Special Diagnostic Area
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)

No

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
Sensitizer ITISVE4B	MIC (AMR detection)	THERMO SCIENTIFIC	0	N° 60 Kits	4	ALGERIA, LIBYA, SENEGAL, SUDAN,

4. Did your laboratory produce vaccines?

Yes

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

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
LAMP	Tumino S, Tolone M, Parco A, Puleio R, Arcoleo G, Manno C, Nicholas RAJ, Loria GR. Validation of Loop-Mediated Isothermal Amplification (LAMP) Field Tool for Rapid and Sensitive Diagnosis of Contagious Agalactia in Small Ruminants. <i>Animals (Basel)</i> . 2020 Mar 19;10(3):509. doi: 10.3390/ani10030509. PMID: 32204335; PMCID: PMC7143204.
RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 3.7.3, Par. B 1.2.1 2018
ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 3.7.3, Par. B 1.2.1 2018
ISOLATION	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 3.7.3, Par. B 1.2.1 2018

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

No

9. Did your laboratory validate vaccines according to WOAHS Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

NAME OF WOAHS MEMBER COUNTRY SEEKING ASSISTANCE	DATE	WHICH DIAGNOSTIC TEST USED	NO. SAMPLES RECEIVED FOR PROVISION OF DIAGNOSTIC SUPPORT	NO. SAMPLES RECEIVED FOR PROVISION OF CONFIRMATORY DIAGNOSES
ALGERIA LIBYA SENEGAL SUDAN	2023-01-02	ISOLATION	150	150
ALGERIA LIBYA SENEGAL SUDAN	2023-01-02	PCR	150	150
ALGERIA LIBYA SENEGAL SUDAN	2023-01-02	RT-PCR	150	150
ALGERIA LIBYA SENEGAL SUDAN	2023-01-02	MIC / KIRBY BAUER	40	40

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

Yes

NAME OF THE WOAHS MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
ALGERIA BOTSWANA ETHIOPIA INDIA IRAN LIBYA MAURITANIA MOROCCO SENEGAL SOMALIA SUDAN TUNISIA	Contagious agalactia/mycoplasma of veterinary importance clinical and laboratory diagnosis and control; support for scientific publication	on line courses, in presence practical laboratory training, reference SOP delivery

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAHS MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Reference contract n° 32065: "IZS Sicily ""Exotic Mycoplasma Species: Ensuring Tools and Capability to Detect Threats and Reduce Disease Risk From Incursions"	4 years	Risk evaluation of environmental impact on Mycoplasma agalactiae	APHA (Animal and Plant Health Agency) Weybridge - UK	UNITED KINGDOM
Small scale project: "Anti-Microbial Resistance (AMR) in African dairy farming: advanced training for Laboratory experts (Eilaj-Aman)" - ERFAN Partnership	2 years	Capacity building on laboratory diagnostics for AMR detection in African Farming	ERFAN, Public Laboratories, Universities/Institute for Agriculture and/or Veterinary Science	ALGERIA ITALY LIBYA SENEGAL SUDAN

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

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?

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:

0

b) International conferences:

3

Meetings and forum on Mycoplasma diseases held in Italy (Rome), Tunisia (Tunis) and South Africa (Pretoria)

c) National conferences:

0

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

15

online meetings via Google meet and Zoom platforms, information days,

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAHA Members?

Yes

a) Technical visit : 2

b) Seminars : 0

c) Hands-on training courses: 2

d) Internships (>1 month) 4

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
A	INDIA	2
A	ALGERIA	2
A	LIBYA	3
A	SENEGAL	1
A	SUDAN	2
C	ITALY	4

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

PDF

UNI CEI EN ISO-IEC 17025-2018.pdf

19. Is your quality management system accredited?

No

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

Yes

Written procedure for environmental sampling of working areas and periodic disinfection.

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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
ERFAN EVENT - REGIONAL MEETING	2023-11-07	PRETORIA (SOUTH AFRICA)	SPEAKER	REPORT ON THE ACTIVITIES OF WG4 (MYCOPLASMA GROUP)

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?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA?H REF. LABS
Mycoplasma agalactiae	Field and laboratory cooperation on the pathogen and its resistance in the environment	2	Workgroup Lead, Exotic bacteria and Lead, Mycoplasma Team, WOA?H Reference Centre for Contagious Agalactia, National Reference Laboratory for exotic ruminant and avian mycoplasmosis, Department of Bacteriology, Animal and Plant Health Agency (APHA)

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.
Validation of serological and molecular biology diagnostic tools	Participant	3	Workgroup Lead, Exotic bacteria and Lead, Mycoplasma Team, WOA?H Reference Centre for Contagious Agalactia, National Reference Laboratory for exotic ruminant and avian mycoplasmosis, Department of Bacteriology, Animal and Plant Health Agency,

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 Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOAH Member Countries
Validation of isolation methods (cultures) and serological test (ELISA)	Organiser	2	Isolation of Mycoplasmas; ELKISA Test;	ITALY,

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No