

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 24 avril 2023 15:59

Laboratory Information

Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Mammalian Tuberculosis
Address of laboratory:	1920 Dayton Ave, Ames, IA 50010
Tel.:	+1 515 337 7301
E-mail address:	NVSL_Concerns@usda.gov
Website:	https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/lab-info-services
Name (including Title) of Head of Laboratory (Responsible Official):	Suelee Robbe-Austerman, DVM, PhD, Director of the National Veterinary Services Laboratory, United State Department of Agriculture
Name (including Title and Position) of WOA Reference Expert:	Tyler C Thacker, PhD, Head of Mycobacteria and Brucella Laboratory
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

Diagnostic Test	Indicated in WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally

Interferon-gamma release Assay	Yes	7236	0
Lateral flow-Cervid	Yes	8126	0
Lateral flow-Zoo	Yes	193	0
Direct diagnostic tests		Nationally	Internationally
Culture-Livestock & Wildlife	Yes	1497	115
Culture-Zoo species	Yes	1655	0
Direct PCR-Livestock & Wildlife	Yes	11670	140
Direct PCR-Zoo species	Yes	1256	0
Histopathology	Yes	6455	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?

No

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?

Yes

NAME OF WOA?H 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

GUATEMALA		direct PCR, culture, whole genome sequencing	133	
HONDURAS		direct PCR, culture, sequencing	45	

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

Yes

NAME OF THE WOA MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
GUATEMALA	sample processing, colony identification, acid-fast staining, direct PCR, real-time PCR detection, interpreting whole genome sequencing	Virtual and in-person lab training at NVSL
HONDURAS	sample processing, colony identification, acid-fast staining, direct PCR, real-time PCR detection, interpreting whole genome sequencing	Virtual and in-person lab training at NVSL

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Five-year prospective evaluation of BCG vaccine efficacy in naturally infected dairy cattle in Baja California, Mexico	5 year	Evaluate the efficacy of the M. bovis vaccine strain BCG to reduce disease burden in infected dairies.	Comité Estatal para el Fomento y Protección Pecuaria de Baja California, Sanidad e Inocuidad de la Secretaría del Campo y Seguridad Alimentaria de Baja California, Dirección de Campañas Zoonositarias de la Dirección General de Salud Animal Servicio Nacional de Sanidad, Inocuidad y Calidad Agroalimentaria, Dirección de Campañas Zoonositarias de la Dirección General de Salud Animal Servicio Nacional de Sanidad, Inocuidad y Calidad Agroalimentaria, Productora Nacional de Biológicos Veterinarios	MEXICO

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

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

Whole genome sequencing of cultured isolates was analyzed to determine the phylogenetic relationships between new isolates and isolates in previous outbreaks. The analysis was distributed to federal and state animal health officials and epidemiologists to aid in disease tracing.

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:

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 WOAHH Members?

Yes

a) Technical visit : 3

b) Seminars : 10

c) Hands-on training courses: 3

d) Internships (>1 month)

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&C	Honduras	2
A&C	Guatemala	1
B	Guatemala	10

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025:2017		ISO17025_2017-2526-NVSL.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Bacterial Isolation	A2LA
Microscopic Examination	A2LA
Polymerase Chain Reaction	A2LA
Sequencing	A2LA
Histopathology Staining	A2LA
Dual Path Platform (Lateral Flow)	A2LA
Gamma Interferon Test	A2LA

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 WOAHA?

No

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

No

TOR10: NETWORK WITH WOAHA REFERENCE LABORATORIES

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

Yes

24. Are you a member of a network of WOAHA Reference Laboratories designated for the same pathogen?

No

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

No

26. Did your laboratory collaborate with other WOA 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?

No

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No