

# WOAH Reference Laboratory Reports Activities 2025

This report has been submitted: 2 mars 2026 03:13

## LABORATORY INFORMATION

<b>*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b>	Ovine theileriosis
<b>*Address of laboratory:</b>	Xujiaping 1
<b>*Tel:</b>	+86-93 18.34.26.81
<b>*E-mail address:</b>	yinhong@caas.cn
<b>Website:</b>	
<b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr. Guiquan Guan
<b>*Name (including Title and Position) of WOA Reference Expert:</b>	Dr. HongYin
<b>*Which of the following defines your laboratory? Check all that apply:</b>	Governmental Research agency 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 WOA Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests	No		0
Direct diagnostic tests	Yes	1286	0
PCR	Yes		

## TOR2: REFERENCE MATERIAL

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

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA 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 Member Countries	Country of recipients
DNA detection	Multiplex-PCR	100-kit	30 kits	0	1	CHINA (PEOPLE'S REP. OF),

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOA Members?

## TOR3: NEW PROCEDURES

Hong Yin - - CHINA\_(PEOPLE'S\_REP\_OF)

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
LAMP-LFB(Loop-mediated isothermal amplification combined with lateral flow biosensor)	Not yet published.

7. Did your laboratory validate diagnostic methods according to WOAHP Standards for the designated pathogen or disease?

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

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

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOAHP Member Country receiving a technical consultancy	Purpose	How the advice was provided
CHINA (PEOPLE'S REP. OF)	How to control theileriosis in small ruminants	Training of farmers in prevalent areas in Pingling City, Tianshui City, Dingxi City, Wuwei City.

## TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

Yes

### Research need : 1

**Please type the Research need:** Rapid detection of ovine Theileria in transmitting ticks and small ruminants. New chemicals for the treatment for sick animal.

**Relevance for WOAHP** Disease Control, Standard Setting, Animal Welfare,

**Relevance for the Code or Manual** Code,

**Field**

**Animal Category**

**Disease:**

**Kind of disease (Zoonosis, Transboundary diseases)**

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

**Answer:** In the field, the ovine theileriosis seriously affects the small ruminants in the endemic areas, some farmers bought some high productivity sheep or goats from no endemic areas, but most of them died due to theileriosis due to misdiagnosis or no effective drugs. The rapid and precise diagnostic methods are expected by both the veterinarians and farmers, and particularly farmers who like to a methods which can be performed by themselves. On the other hand, therapeutics chemicals are also expected by both farmers and veterinary clinics as the old chemical for the treatment of theileriosis (e.g. Berenil) currently used is not very effective.

**Notes:**

**Answer:**

## TOR6: EPIZOOLOGICAL DATA

Hong Yin - - CHINA\_(PEOPLE'S\_REP\_OF)

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 distribution of ovine Theileria in the world( mainly from publication and WAHIS)

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 epidemiological situation in Northwestern China

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:

2

*Yijun Chai, Jin Che, Jinming Wang, Jianxun Luo, Shuaiyang Zhao, Guiquan Guan & Hong Yin. Epidemiology of piroplasm infections in humans, animals, and tick vectors in China (1982–2022): a One Health systematic review, Critical Public Health. 2025, 35(1):2532632*  
*Haohan Zhu, Shuaiyang Zhao, Shaohua Zhang, Chuhan Zhang, Shuxiao Su, Guiquan Guan, Hong Yin, Jianxun Luo, Junlong Liu. Investigation and analysis of ovine piroplasms in Rigaze, Tibet, China. Chinese Journal of Veterinary Medicine, 2025, 61(03): 39-43.*

b) International conferences:

1

*The Excutive Committee Meeting of STAR\_IDAZ International Research Consortium on Animal Health, Beijing, China, 23-24Sep, 2025. The resarch priorities on the vector and vecotor borne diseases in China.*

c) National conferences:

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

1

*National and district evaluation of endemic diseases in Gansu, Qinghai, Ningxia province, and In China*

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 6

b) Seminars : 1

c) Hands-on training courses: 1

d) Internships (>1 month) 2

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	EGYPT	1

### Hong Yin - - CHINA\_(PEOPLE'S\_REP\_OF)

A	ETHIOPIA	3
A	PHILIPPINES	1
A	MALAYSIA	1
A	MONGOLIA	1
A	UZBEKISTAN	4
B	PAKISTAN	2
B	ETHIOPIA	2
C	EGYPT	1
C	ETHIOPIA	3
C	PHILIPPINES	1
C	MALAYSIA	1
C	MONGOLIA	1
C	MYANMAR	1
C	TAJIKISTAN	1
C	THAILAND	1
C	UZBEKISTAN	3
D	ETHIOPIA	1
D	PAKISTAN	1

## 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 17025:2017	JPG	e6a89a7c10eb83660d4dbb3b5f3b22d.jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PCR	China National Accreditation Service for Conformity Assessment

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

Yes

The biorisk management system in our laboratory is also validated by China National Accreditation Service for Conformity Assessment and supervised by Veterinary Authorities both from Lanzhou City Government and Gansu Provincial Government. The routine work is controlled by the Division of Laboratory Management and Platform, Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences.

## TOR9: SCIENTIFIC MEETINGS

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

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
International	STAR IDAZ IRC Executive Committee Meeting Tuesday 23 and Wednesday	Star-IDAZ Secretariat	2025-09-22	Beijing, China	28

### Hong Yin - - CHINA\_(PEOPLE'S\_REP\_OF)

	24 September 2025				
International	STAR IDAZ IRC The Asia and Australasia Regional Network Meeting Thursday 25 September 2025 Beijing Hubei Hotel, Beijing, China	Star-IDAZ Secretariat	2025-09-24	Beijing, China	17

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
The Fifth Forum on Tropical Vector Borne Diseases and Vector Control	2025-03-28	Haokou, Hainan Province, China	Poster	Introduction of WOAHP Ovine Theileriosis

## TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Not applicable (only WOAHP Reference Laboratory designated for the disease)

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

Not applicable (only WOAHP Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP 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 WOAHP Ref. Labs/ organising WOAHP Ref Lab
To evaluate the ability to carry out diagnosis as a ref lab.	Participants and co-organiser	3	WOAHP Ref Labs in Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences

26. Did your laboratory collaborate with other WOAHP Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

Not applicable (only WOAHP Reference Laboratory designated for the disease)

## TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAHP 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	WOAHP Member Countries
To evaluate the diagnostic method for tick borne diseases	organizer	2	PCR	CHINA (PEOPLE'S REP. OF),

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

*As ovine theileriosis is not the priorities of financial founder and most of the financial supports go to virus diseases as FMD, ASF, AI, and some bacterial diseases such as TB, Brucellosis, it is very difficult to get financial support from either government organization or private founder. We have submitted several proposals to the foundation organization, but in vain, it is therefore no international collaboration in 2025 again.*