World Organisation for Animal Health

Hong Yin - - CHINA_(PEOPLE'S_REP_OF)

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

***Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:**	Ovine theileriosis
***Address of laboratory:**	Xujiaping 1, yangchangbo, Lanzhou, Gansu, P. R. China
***Tel:**	+86-93 18.34.2515
***E-mail address:**	yinhong@caas.cn
Website:	
***Name (including Title) of Head of Laboratory (Responsible Official):**	Dr. Guiquan Guan
***Name (including Title and Position) of WOAH Reference Expert:**	Dr. Hong Yin
***Which of the following defines your laboratory? Check all that apply:**	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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA	Yes	300	0
Direct diagnostic tests		Nationally	Internationally
PCR	Yes	300	0

TOR2: REFERENCE MATERIAL

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

No

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

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAH Member Countries	Country of recipients
DNA Dectection	Mutiplex PCR	100 Kits	50Kits	0	1	CHINA (PEOPLE'S REP. OF),

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAH 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 WOAH Standards 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 publised.

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOAH Member Country receiving a technical consultancy	Purpose	How the advice was provided
CHINA (PEOPLE'S REP. OF)	How to control piroplasmosis in small rumiants	Training of farmers in prevalent areas in Pingling, Gansu Province

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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 WOAH Disease Control, Animal Welfare,

Relevance for the Code or Manual Code,

Field Epidemiology and Surveillance, Diagnostics, Therapeutics,

Animal Category Terrestrial,

Disease:

Ovine theileriosis

Kind of disease (Zoonosis, Transboundary diseases) 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: Chapter 3.8.12.Theileriosis in sheep and goats (infection with Theileria lestoguardi, T. luwenshuni and T. uilenbergi)

Notes:

Answer: In the field, the rapid and penside diagnostic methods are expected by both the veterinarians and farmers, and praticularly farmers who want a methods which can be performed by themself. On the other hand, therapeutics chemicals are also expected by both farmers and veterinary clicinics as the drug(Berenil) currently used is not very effective.

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 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 epidemilogical sitiation in Qinghai and Tibetan Region

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:

2
Sinao -Germany Symposium on Parasitology, Wuhan, 1-5 July, 2024.
Regional Seminar for WOAH National Focal Points for Veterinary Laboratories
Tokyo, Japan, 16-18 July 2024

c) National conferences:

2
18th Symposium of Chinese Association of Veterinary Parasitology, Huhehot, 2-5, August, 2024.
11th Conference of China Veterinary Association, Wuhan, 23-25, August, 2024

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 WOAH Members?

Yes

a) Technical visit : 3

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	KYRGYZSTAN	5
B	KAZAKHSTAN	2
A	PAKISTAN	5
B	ETHIOPIA	5
B	MONGOLIA	1

B	EGYPT	1
C	PAKISTAN	1
D	PAKISTAN	1
D	ETHIOPIA	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/IEC17025:2017	JPG	CNAS2023.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 ans supviserd 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 Vetrinary 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 WOAH?

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
International	STAR-IDAZ Asia and Australasia Regional Network Meeting 16 July 2024	Star-IDAZ Secretariat	2024-07-15	online	12

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented

Sino-Germany symposiumonParasitology	2024-06-30	Wuhan, China	Speaker	Ovine theileriosis in China
Regional Seminar for WOAH National Focal Points for Veterinary Laboratories	2024-07-15	Tokyo Japan	Speaker	WOAH Ovine Theileriosis Lab: Achievementandproblems

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

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

Not applicable (only WOAH Reference Laboratory designated for the disease

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

Not applicable (only WOAH Reference Laboratory designated for the disease

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
To evaluate the ablity to carry out diagnosis as a ref lab.	particpant	5	WOAH FMD Ref Lab

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?

Not applicable (only WOAH 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 WOAH Reference Laboratories for the same pathogen during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons1	**Role of your reference laboratory (organizer/participant)**	**No. participating laboratories**	**Name of the test**	**WOAH Member Countries**
To evalate the dignostic method for tick borne diseases	participant	3	Detection of tick pathogens in ruminants	CHINA (PEOPLE'S REP. OF),

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Hong Yin - - CHINA_(PEOPLE'S_REP_OF)

Yes

As Theieria luwenshuni and T. uilenbergi cannot be cultured in vitro, and development of subunit vaccine against ovine theileriosis is expensive and not the priorities of financial founder, we do not have project for vaccine development, hence no activities on vaccinein 2024. The situation for international coopration is also similar, and we have submited several propsals to the foundation organization, but in vain, it is therefore no internation collaboration in 2024.