

WOAH Reference Laboratory Reports Activities 2025

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Equine infectious anaemia
*Address of laboratory:	678 Haping Road, Harbin, Heilongjiang Province, P. R. China
*Tel:	+86-451-5105-1749
*E-mail address:	wangxiaojun@caas.cn
Website:	www.hvri.ac.cn
*Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Xiaojun Wang, Deputy Director, Harbin Veterinary Research Institute The Chinese Academy of Agricultural Sciences
*Name (including Title and Position) of WOAHO Reference Expert:	Prof. Xiaojun Wang, Deputy Director, Harbin Veterinary Research Institute The Chinese Academy of Agricultural Sciences
*Which of the following defines your laboratory? Check all that apply:	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			
cELISA	Yes	2767	0
AGID	Yes	50	0
Colloidal gold strip test	Yes	72	0
Direct diagnostic tests			
qRT-PCR	Yes	17	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?

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAHO Members?

TOR3: NEW PROCEDURES

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

Yes

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

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
AC-ELISA for detection of EIAV	Haibing Liang, Bingqian Zhou, Zhe Hu, Xiaoyu Chu, Xuefeng Wang, Cheng Du*, Xiaojun Wang*. Development of a Broad-Spectrum Antigen-Capture ELISA Using Combined Anti-p26 Polyclonal and Monoclonal Antibodies for Detection of Equine Infectious Anemia Virus. Microorganisms. 2025 Jun 27;13(7):1500.

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

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

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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
KAZAKHSTAN	equine infectious anaemia virus isolation	lab training
KAZAKHSTAN	acELISA and AGID test	lab training
KAZAKHSTAN	ISO/IEC 17025 management system	lab training
MONGOLIA	For receiving the samples from Mongolia	email

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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?

Yes

If the answer is yes, please provide details of the data collected:

Data were collected from:

- <https://pubmed.ncbi.nlm.nih.gov/?term=equine+infectious+anemia&sort=date&size=100>
- The official website of Chinese Center for Animal Disease Control and Prevention (<https://www.cadc.net.cn/sites/MainSite/yw/sygb/>)

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 WOAHS Reference Laboratory, as National Reference laboratory for EIA, provides EIA surveillance information to the Ministry of Agriculture and Rural Affairs of China through the "Veterinary Health Comprehensive Information Platform" (<https://sso.cadc.net.cn/zcpt/security/login>)

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:

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Haibing Liang, Bingqian Zhou, Zhe Hu, Xiaoyu Chu, Xuefeng Wang, Cheng Du*, Xiaojun Wang*. Development of a Broad-Spectrum Antigen-Capture ELISA Using Combined Anti-p26 Polyclonal and Monoclonal Antibodies for Detection of Equine Infectious Anemia Virus. *Microorganisms*. 2025 Jun 27;13(7):1500.

b) International conferences:

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1. "SEEKING WAYS TO ERADICATE TUBERCULOSIS AND GLANDERS INTERNATIONAL SCIENTIFIC CONFERENCE 2025" May 15, 2025, Ulaanbaatar, Mongolia
2. WOAHL LABORATORY TWINNING PROJECT BETWEEN HVRI AND KATRU KICK-OFF MEETING, March 27-28, 2025, Astana, Kazakhstan
3. Workshop on Animal Disease Prevention and Control, November 3-5 2025, Sanya, Hainan, China

c) National conferences:

0

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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 1

b) Seminars : 2

c) Hands-on training courses: 1

d) Internships (>1 month) 0

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	KAZAKHSTAN	12
B	KAZAKHSTAN	40
C	KAZAKHSTAN	2
B	MONGOLIA	2
B	EGYPT	5

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	CNAS ISO 17025	CNAS EIA_20260129142638_680_95.jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body

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AGID	China National Accreditation Service for Conformity Assessment
ELISA	China National Accreditation Service for Conformity Assessment

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

Yes

We maintain a BSL-2 laboratory.

TOR9: SCIENTIFIC MEETINGS

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

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
International	WOAH LABORATORY TWINNING PROJECT BETWEEN HVRI AND KATRU KICK-OFF MEETING, March 27-28, 2025, Astana, Kazakhstan	KATRU	2025-03-27	Astana, Kazakhstan	50

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

No

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Yes

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

No

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
Interlaboratory trail for ELISA and AGID	participant	36 labs for ELISA and 13 flabs or AGID	WOAHP Ref Lab Italy

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?

No

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 ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAHP Member Countries
Proficiency testing for EIA test	organizer	14	cELISA	CHINA (PEOPLE'S REP. OF),
Proficiency testing for EIA	organizer	9	AGID	CHINA (PEOPLE'S REP. OF),
Proficiency testing for	organizer	13	real-time PCR	CHINA (PEOPLE'S REP.

