

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 31 janvier 2025 09:08

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Sheep pox and goat pox
*Address of laboratory:	P.O. Box 31975/148 Hessarak Karaj Alborz IRAN
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Website:	www.rvsri.ac.ir
*Name (including Title) of Head of Laboratory (Responsible Official):	Director General: Dr. Ali Es-haghi
*Name (including Title and Position) of WOAH Reference Expert:	Mohammad Hassan Ebrahimi-jam, DVM, PhD / Head of sheep & goat pox laboratory / Head of animal viral vaccines department of Razi Institute
*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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
virus neutralisation test (neutralisation index)	Yes	34	0
Direct diagnostic tests		Nationally	Internationally
Polymerase Chain Reaction (PCR), P32 Gene	Yes	11	0
Real - Time Polymerase Chain	No	10	

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Reaction (PCR)			0
Virus Isolation on Cell culture	Yes	3	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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOA?H Member Countries	Country of recipients
Sheep pox reference virus (RM/65 strain)	1-VNT (based NI) 2- PCR 3-Real-time PCR	Provide	Own laboratory use	0	1	IRAN,
Goat pox reference virus (Gorgan Strain)	1-VNT (based NI) 2- PCR 3- Real-time PCR	Provide	Own laboratory use	0	1	IRAN,
GTPV Hyper immune serum)	VNT (based NI)	Provide/ Produce	10 ml / Own laboratory use	0	1	IRAN,

4. Did your laboratory produce vaccines?

Yes

5. Did your laboratory supply vaccines to WOA?H Members?

Yes

Vaccine name	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient WOA?H Members
Live attenuated sheep pox vaccine	49500000 Doses	0	IRAN
Live attenuated goat pox vaccine	18000000 Doses	0	IRAN
Inactivated goat pox vaccine	42500 Doses	0	IRAN

TOR3: NEW PROCEDURES

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.)
DIVA PCR	Considering the result of the "Tefsaye Rufael Chibssa "article, our laboratory set the diva PCR to differentiate between the Iranian sheeppox vaccine strain (RM/65) and the Wild-Type sheeppox Disease Virus. Tefsaye Rufael Chibssa et al. A gel-based PCR method to differentiate sheeppox virus field isolates from vaccine strains. Virology Journal (2018) 15:59

7. Did your laboratory validate diagnostic methods according to WOAHS 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 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?

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
IRAN	Advice on using inactivated goatpox vaccine for highly foreign susceptible breeds of goat (Saanen) instead of the live attenuated vaccine.	via a meeting

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?

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:

0

c) National conferences:

1

Mohammad hassan Ebrahimijam has facilitated the "Sheep and goat pox diseases relying on sampling and laboratory diagnosis" workshop at the 21st National Veterinary Congress of Iran from April 29, 2024, to May 1, 2024.

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 WOA Members?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/ICE 17025	JPG	sheep pox & goat pox iso17025.jpg

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PCR	Analitica

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

Yes

The laboratory has good facilities and equipment to avoid cross-contamination. There are standard operating procedures (SOPs) that are a requirement of ISO 17025 in the laboratory. The laboratory has a system to keep confidentiality and impartiality, which is a requirement of ISO 17025.

TOR9: SCIENTIFIC MEETINGS

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

Yes

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National/ International	Title of event	Co-organiser	Date	location	No. Participants
National	An overview of live attenuated viral vaccines production relying on SPPV & GTPV	Razi institute/IRAN Veterinary Organization	2024-07-10	Razi vaccine and serum research institute, Hessarak Karaj Alborz IRAN	10

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

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

No

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

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOA Reference Laboratories designated for the same pathogen during the past 2 years?

No

Our laboratory has only organized a proficiency test in PCR with the national lab (non-WOA reference lab).

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 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	WOA Member Countries
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Quality control of PCR, which is a requirement of ISO17025

Organizer

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Capripox PCR

IRAN,

TOR12: EXPERT CONSULTANTS

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

No

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29. Additional comments regarding your report:

Yes

In 2024, we received a few samples for PCR diagnosis, so we requested the IRAN Veterinary Organisation (IVO) to send more samples in the future.

Also, the laboratory announces that it's ready to receive international samples for PCR and serology diagnosis, especially in Middle- East countries.