

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 30 janvier 2025 17:39

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Swine vesicular disease
*Address of laboratory:	Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER) Via A. Bianchi No 9, 25124 Brescia, Italy
*Tel:	+390302290614
*E-mail address:	giulia.pezzoni@izsler.it
Website:	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Giorgio Varisco
*Name (including Title and Position) of WOA Reference Expert:	Dr. Giulia Pezzoni
*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	
		Nationally	Internationally
Indirect diagnostic tests			
Competitive ELISA	Yes	10119	0
IgG-specific ELISA	No	0	0
IgM specific ELISA	No	0	0
Virus neutralization test	Yes	0	0

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Direct diagnostic tests		Nationally	Internationally
Real time RT-PCR (3D-fragment)	Yes	2	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
Capture and conjugated mAbs, inactivated SVDV antigen, positive control serum	5B7-Competitive ELISA (WOAH prescribed test for Ab detection)	produced and provided	For testing of 35500 sera in regional labs + 10000 sera at NRL	For testing of 27000 samples	3	CANADA, ITALY, POLAND,

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?

No

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

No

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?

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:

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 WOAH 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 17025	See attached file	CERTIFICATO-DI-ACCREDITAMENTO.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
5B7-Competitive ELISA (WOAH prescribed test for screening)	Accredia - Italy System Accreditation Service
Virus Neutralization Test	Accredia - Italy System Accreditation Service
Sandwich ELISA for antigen detection (mAbs-based)	Accredia - Italy System Accreditation Service
Conventional RT-PCR 3D-gene	Accredia - Italy System Accreditation Service
Real Time RT PCR 3D-gene	Accredia - Italy System Accreditation Service
The other tests in use (Virus Isolation, IgG and IgM ELISA) are IZSLER-coded tests	Subject to regular internal and external QC

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

Yes

At IZSLER, SVDV is manipulated in a BSL3+ bio-risk level laboratory, following the Minimum Standard applied for Foot and Mouth Disease, for further details see WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4.

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

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

Yes

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

No

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
The Proficiency Test 2023, organized by the FMD-EURL (ANSES-France & Sciensano-Belgium), included the evaluation of laboratory capability to early detection and differential diagnosis of			Participating Labs: NRLs of EU member countries, the OIE Reference Lab for SVD, The

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FMD/SVD outbreaks using virological and serological methods. Testing panels comprised live viruses for FMDV/SVDV detection, typing and sequencing and serum samples for SVD serological tests.	EURL-FMDV	>30	Pirbright Institute-UK and some EU candidate countries Organising labs: ANSES (France) & Sciensano (Belgium)
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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	WOAH Member Countries
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Organisation of the annual inter-laboratory test to monitor the harmonisation and performance of the 5B7-competitive ELISA for SVDV Ab detection carried out in 10 Italian regional laboratories for the national surveillance plan.

Organizer: Italian National Reference Laboratory for vesicular diseases
Participant: Italian regional laboratories

10

5B7-Competitive ELISA (WOAH prescribed test for screening)

ITALY,

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No