WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 1 juillet 2024 15:46

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Swine Vesicular Disease Virus
Address of laboratory:	Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER) Via A. Bianchi No 9, 25124 Brescia, Italy
Tel.:	0302290614
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 WOAH 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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Competitive ELISA		12229	0
IgG-specific ELISA		1	0
IgM-specific ELISA		1	0
Virus Neutralization Test		1	0
Direct diagnostic tests		Nationally	Internationally
Real time RT-PCR (3D-fragment)		3	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
Assembled reagents for 5B7-competitive ELISA (capture and conj.	5B7-Competitive ELISA		For testing of 50.500	For testing of 12.900		CZECH REPUBLIC,

mAbs, inactivated SVDV antigen, control sera)	(WOAH prescribed test for Ab detection)	Produced and provided	sera in regional labs + 12000 sera at NRL	sera	3	ITALY, POLAND,
SVDV BEI inactivated antigen	Positive control in direct and indirect diagnostic tests	Produced and provided	None	81mL	2	BRAZIL, FRANCE,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH 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 WOAH 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 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
ITALY	Technical consultancy to laboratories and local veterinary services for lab results interpretations and follow-up activities	Technical explanations and advice

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 Neutralizazion 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, 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?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	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 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	Participating Labs: NRLs of EU member countries, the OIE Reference Lab for SVD, The Pirbright Institute-UK and some EU candidate countries Organising labs: ANSES (France) & Sciensano (Belgium)

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?

No

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?

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOAH Member Countries
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 WOAH?

No

29. Additional comments regarding your report:

No