

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 22 février 2023 19:27

Laboratory Information

Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Vesicular stomatitis
Address of laboratory:	Av. Governador Leonel de Moura Brizola, 7778, CEP 25045-002, São Bento, Duque de Caxias, RJ, BRAZIL
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Website:	www.paho.org/en/panaftosa
Name (including Title) of Head of Laboratory (Responsible Official):	Ottorino Cosivi, Veterinarian, Director Pan American Center for Foot and Mouth Disease - PANAFTOSA-PAHO/WHO
Name (including Title and Position) of WOA Reference Expert:	Edviges Maristela Pituco, Veterinarian (PhD), Head of Reference Laboratory of Pan American Center for Foot and Mouth Disease – PANAFTOSA-PAHO/WHO
Which of the following defines your laboratory? Check all that apply:	Other: International Organization/ PANAFTOSA-PAHO/WHO

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	
Indirect diagnostic tests		Nationally	Internationally
Direct diagnostic tests		Nationally	Internationally
RT-PCR	yes		30

Virus neutralization	yes		24
Sequencing	yes		3

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
Ag Typing ELISA	FMDV/VSV Antigen Typing	produced	non applicable	Quantity enough to test 2975 samples (17 kits)	7	America
Reference standard	Molecular biology	produced	non applicable	120	5	America
Viral seed	Research	produced	non applicable	15	1	America

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?

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
ELISA - LPBE	It is under development.

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?

Yes

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NAME OF WOA MEMBER COUNTRY SEEKING ASSISTANCE	DATE	WHICH DIAGNOSTIC TEST USED	NO. SAMPLES RECEIVED FOR PROVISION OF DIAGNOSTIC SUPPORT	NO. SAMPLES RECEIVED FOR PROVISION OF CONFIRMATORY DIAGNOSES
CHILE	2022-05-19	Virus neutralization	6	
CHILE	2022-05-19	RT-qPCR	12	
CHILE	2022-05-19	Sequencing	3	

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

Yes

NAME OF THE WOA MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
COLOMBIA	Technical support	Technical advice at distance
ECUADOR	Technical support	Technical advice at distance
VENEZUELA	Technical support	Technical advice at distance

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

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:

Using the Interface for Official Veterinary Surveillance (IVVO), an online information system to support official veterinary surveillance (passive and active) of animal diseases at national and regional levels, Panaftosa collects epizootiological data from countries in the region and performs their epidemiological analysis to guide the next actions against FMD in the context of each country's Action Plan.

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 data are disseminated at the annual meeting with all the countries members of Cosalfa. The 49th Ordinary Meeting of the South American Commission for the Fight Against Foot-and-Mouth Disease (COSALFA 49) was held on August 25th and 26th as a virtual event. In the meeting was analyzed the advance of the countries regarding the Action Plan 2021-2025 of the Hemispheric Program for the Eradication of Foot-and-Mouth Disease (PHEFA). All data collected regarding vesicular diseases were presented on COSALFA 49: <https://www.paho.org/es/panaftosa/cosalfa/cosalfa-49>

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:

1

Bennett, B., Urzúa-Encina, C., Pardo-Roa, C., Ariyama, N., Lecocq, C., Rivera, C., Badía, C., Suárez, P., Agredo, M., Aguayo, C., Ávila, C., Araya, H., Pérez, P., Berrios, F., Agüero, B., Mendieta, V., Pituco, E. M., de Almeida, I. G., Medina, R., . . . Ramirez, V. N. (2022). First report and genetic characterization of Seneca Valley virus (SVV) in Chile. *Transboundary and Emerging Diseases*, 1–7.
<https://doi.org/10.1111/tbed.14747>

b) International conferences:

1

1 - Manuel Sánchez Vázquez - COSALFA 49. Resoluciones y Cooperación Técnica con países - Virtual meeting, 25th - 26th August 2022.
https://www.paho.org/sites/default/files/aftosa-cosalfa49-informe-secretaria-msanchez_0.pdf - Informe de Secretaria ex officio.

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 WOA H Members?

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 1093

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
C	Argentina	1
C	Brazil	882
C	Brazil	184
C	Paraguay	1
C	Brazil	0

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ABNT NBR ISO/IEC 17025:2017	Certificado_CRL 1309 PANAFTOSA 28-06-21.pdf	Certificado_CRL 1309 PANAFTOSA 28-06-21.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Virus neutralization test	CGCRE/INMETRO - Brazil
Typing ELISA	CGCRE/INMETRO - Brazil
RT-PCR	CGCRE/INMETRO - Brazil

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

Yes

The laboratory follows procedures to identify, map, control, monitor and mitigate possible risks that may affect its activities. Risks are identified by area and classified in relation to priority and impact, and treated according to the classification in which they were placed.

TOR9: SCIENTIFIC MEETINGS

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

No

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?

Yes

24. Are you a member of a network of 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?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS/ ORGANISING WOA REF. LAB.
FMDV and VSV virus structural proteins	organiser	15	FADDL (USA)
FMDV and VSV molecular biology tests	organiser	16	FADDL (USA)
FMDV and VSV antigen detection tests	organiser	17	FADDL (USA)

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?

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOA Member Countries
FMD and VSV virus structural proteins	organiser	15	America
FMD and VSV molecular biology tests	organiser	16	America
FMDV and VSV antigen detection tests	organiser	17	America

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

The system to write the report is very unstable, so some of the answers may have been erased.