

WOAH Reference Laboratory Reports Activities 2025

This report has been submitted: 23 janvier 2026 14:00

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, São Bento, Duque de Caxias, RJ, Brazil, CEP 25045-002
*Tel:	+55 21 3661 9064
*E-mail address:	pitucoedv@paho.org
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:	International Organisation/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	
		Nationally	Internationally
Indirect diagnostic tests			
Virus neutralization	Yes	0	16
Direct diagnostic tests			
Conventional PCR	Yes	0	40
Viral isolation	Yes	0	10

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOA?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA 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 Member Countries	Country of recipients
Ag Typing ELISA	FMDV/VSV Antigen Typing	produced	non applicable	19 kits	8	BRAZIL, COLOMBIA, ECUADOR, MEXICO, PARAGUAY, PERU, URUGUAY, VENEZUELA,
						CHILE, COLOMBIA,

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Reference standard	Molecular biology	produced	non applicable	178	5	ECUADOR, PARAGUAY, PERU,
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4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHA Members?

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 WOAHA Standards for the designated pathogen or disease?

No

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

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

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

Name of WOAHA 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
BRAZIL	2025-05-21	Viral detection	0	10
BRAZIL	2025-12-13	Viral neutralization	0	4

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

Yes

Name of the WOAHA Member Country receiving a technical consultancy	Purpose	How the advice was provided
ECUADOR	Genomic study of VSV-positive epithelial samples	In-person and remote technical meetings
GUATEMALA	Potency testing of vaccines against VSV	Virtual meetings
BRAZIL	Technical cooperation on viral neutralisation test	Virtual meetings

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHA?

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:

Panaftosa is responsible for consolidating the data reported by countries that continuously monitor the indicators of vesicular diseases in cattle and swine across the South American region. In 2024, 159 out of 1,156 (14%) samples with a well-founded suspicion of vesicular disease tested positive for vesicular stomatitis. All samples tested negative for foot-and-mouth disease. All data collected on vesicular diseases are presented at the COSALFA of the respective year.

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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:

Epidemiological data on vesicular diseases, including vesicular stomatitis, are published annually at COSALFA in the document entitled Informe de Situación de los Programas de Erradicación de la Fiebre Aftosa Sudamérica y Panamá. Accessed on: https://www.paho.org/sites/default/files/informe_situacion-fiebreaftosa-2024b_0.pdf

Beyond this, PANAFTOSA disseminates its knowledge through a catalog of publications. The main objective of this catalog is the preservation and dissemination of the technical-scientific memory of the Organization, through the collection and organization of the works officially published by PANAFTOSA/SPV and its professionals since its creation in 1951. PANAFTOSA/SPV-PAHO/WHO selects and makes available in the catalog: documents, publications, scientific articles, events, virtual transmissions, and monographs carried out in the institutional and scientific environment. It is important to note that some records allow electronic access and are available in full text, while others are available with their respective references. Link catalog of publications (1951-2025): <https://iris.paho.org/items/3e9b67df-bcad-4855-9ce5-3c76349c6238>

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:

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SIMULATION EXERCISES FMD EMERGENCY

1. Montes Claros, MG, Brazil, September 27th to October 3rd, 2025

The exercise was organized by MAPA/Brazil and the Veterinary Services of the State of Minas Gerais (IMA/MG), with support from the private sector, PANAFTOSA, environmental and health state service, emergency services, and police forces.

The purpose of this exercise was to strengthen:

- theoretical and practical training on biosafety, clinical examination, collection, packaging, identification, and shipment of biological samples when dealing with suspected vesicular disease.
- concepts and practical experience related to the animal health emergency management system;
- the profile and competencies required for professionals who act as managers and executors of contingency plans in animal health emergencies.

2. Cananéia, SP, Brazil, March 10th to 15th, 2025

- Theoretical and practical training on biosafety, clinical examination, collection, packaging, identification, and shipment of biological samples when dealing with suspected vesicular disease.

- The target audience was veterinarians from the Official Service of Brazil - Agricultural Defense Coordination (CDA) - Secretariat of Agriculture and Supply of the State of São Paulo

ANDEAN COMMUNITY (CAN)

Workshop: Strengthening preparedness, emergency response, and recovery capacities for vesicular diseases outbreaks in the Andean Subregion.

Purpose: To strengthen the capacities of the Member States of the Andean Community and enhance their coordination with the General Secretariat of the Andean Community (SGCAN), to prevent, prepare for, and respond in a coordinated manner to health emergencies arising from vesicular diseases that impact livestock production.

Participants: 21 (from Panaftosa, CAN, Bolivia, Ecuador, Colombia, Peru, and Paraguay).

51st ORDINARY MEETING OF THE SOUTH AMERICAN COMMISSION FOR THE FIGHT AGAINST FOOT-AND-MOUTH DISEASE - COSALFA 51 (2025):

- Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health of the Pan American Health Organization/World Health Organization (PANAFTOSA/VPH-PAHO/WHO). COSALFA 51. Foot-and-mouth disease situation report in South America and Panama 2024. Available at: https://www.paho.org/sites/default/files/informe_de_situacion_fiebre_aftosa_en_sudamerica_y_panama_2024_0.pdf

- Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health of the Pan American Health Organization/World Health Organization (PANAFTOSA/VPH-PAHO/WHO). COSALFA 51. National Laboratories for Foot-and-Mouth Disease and their Differentiators. Available at: https://www.paho.org/sites/default/files/laboratorios_nacionales_para_fiebre_aftosa_y_sus_diferenciales_0.pdf

INFORME DE SITUACIÓN DE LOS PROGRAMAS DE ERRADICACIÓN DE LA FIEBRE AFTOSA EN SUDAMÉRICA Y PANAMÁ EN 2024. CENTRO PANAMERICANO DE FIEBRE

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AFTOSA Y SALUD PÚBLICA VETERINARIA, 2024. Available at: https://www.paho.org/sites/default/files/informe_situacion-fiebreaftosa-2024_0.pdf

INFORME DE CAPACIDADES Y NECESIDADES DE LOS LABORATORIOS DE SANIDAD ANIMAL DE LOS PAÍSES MIEMBROS DE LA COSALFA, 2024. Available at: <https://www.paho.org/sites/default/files/2026/01/anexo-ii-informe-resultados-cuestionario-labs-cosalfa-2024.pdf>

REPORT OF THE MEETING OF ANIMAL HEALTH LABORATORIES FROM COSALFA MEMBER COUNTRIES, 2024. Available at: <https://www.paho.org/en/documents/report-meeting-animal-health-laboratories-cosalfa-member-countries>

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 WOA Members?

Yes

a) Technical visit : 0

b) Seminars : 8

c) Hands-on training courses: 3

d) Internships (>1 month) 1

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	BRAZIL	200
B	BRAZIL	50
B	ECUADOR	3
B	COLOMBIA	3
B	ECUADOR	3
B	PERU	3
B	PARAGUAY	2
C	CHILE	35
C	CHILE	20
B	KYRGYZSTAN	35
B	PARAGUAY	290
D	BRAZIL	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
	Certificado creditação_CRL 1309_PANAFTOSA LOGO
	Certificado creditação_CRL 1309_PANAFTOSA LOGO

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ABNT NBR ISO/IEC 17025:2017	ILAC.pdf	ILAC.pdf
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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 WOAHP?

No

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?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS
VSV WOAHP Reference Laboratory	PARTICIPANT/ORGANISER	2	- The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH) - National Veterinary Services Laboratories, USDA, APHIS, VS

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
ELISA Typing - VSV antigen detection test: Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organiser	14	National Veterinary Services Laboratories, USDA, APHIS, VS / The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)
VSV molecular biology test: Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organiser	18	National Veterinary Services Laboratories, USDA, APHIS, VS / The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)
VSV antibody detection test - Virus			

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neutralisation (VNT): Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organiser	9	National Veterinary Services Laboratories, USDA, APHIS, VS / The Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)
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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
Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organizer	14	ELISA Typing - VSV antigen detection test	UNITED STATES OF AMERICA,
Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organizer	18	VSV molecular biology test	UNITED STATES OF AMERICA,
Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions such as training, consultancy, or other applicable means.	Organizer	9	VSV antibody detection test - Virus neutralisation (VNT)	UNITED STATES OF AMERICA,

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Technical scientific	At distance	Review of WOA chapter on Vesicular Stomatitis Virus (VSV)

29. Additional comments regarding your report:

Yes

Title of activity: Course in Geographic Information Systems (GIS) Applied to Animal Health Surveillance
Scope: PANAFTOSA/PAHO provided two courses for all Brazilian states.

Title of activity: Basic Epidemiology Field Course for Veterinarians: Information Management from the Perspective of Surveillance and Response to Animal Health Emergencies.

Scope: PANAFTOSA/PAHO provided two courses for two regions in Chile.