

WOAH Reference Laboratory Reports Activities 2024

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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
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*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)

No

As a WOA Reference Laboratory under an international organization, Panaftosa does not routinely conduct diagnostic tests for clinical cases of Vesicular Stomatitis or screening animals for export and surveillance purposes. The National Reference Laboratories typically manage these responsibilities within the South American Network of Animal Health Laboratories. Panaftosa annually consolidates and publishes vesicular disease surveillance data from the 13 member countries of Cosalfa (South America and Panama).

TOR2: REFERENCE MATERIAL

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

No

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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	Quantity enough to test 3500 samples (20 kits)	5	BOLIVIA, BRAZIL, COLOMBIA, ECUADOR, PARAGUAY, VENEZUELA,
Reference standard	Molecular biology	produced	non applicable	8	2	BOLIVIA, PARAGUAY,
Viral seeds	Viral neutralization	produced	non applicable	3	1	BRAZIL,
Hyperimmune serum	Reference standard	produced	non applicable	2	1	VENEZUELA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA 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 validation.

7. Did your laboratory validate diagnostic methods according to WOA 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 Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

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BRAZIL	Technical support	Technical support in loco and at distance
BOLIVIA	Technical support	Technical support at distance
PARAGUAY	Technical support	Technical support at distance
VENEZUELA	Technical support	Technical support at distance
COLOMBIA	Technical support	Technical support at distance
ECUADOR	Technical support	Technical support at distance
PERU	Technical support	Technical support at distance
PANAMA	Technical support	Technical support in loco and at distance
GUYANA	Technical support	Technical support at distance
SURINAME	Technical support	Technical support at distance
CHILE	Technical support	Technical support in loco
GUATEMALA	Technical support for vaccine potency test against VSV	Technical support at distance
UNITED KINGDOM	Technical support	Technical support 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?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
Molecular analysis and environmental description of Vesicular Stomatitis New Jersey viruses isolated in Venezuela from 2009 to 2017	3 years	The goals of the study were to molecularly analyze samples of VSNJV collected in Venezuela from 2009 to 2017 and to characterize the outbreak areas through the analysis of variables related to environmental factors.	Insai - Instituto Nacional de Salud Agrícola Integral	VENEZUELA

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

Yes

Research need : 1

Please type the Research need: Development of an ELISA test for detection of antibody against the four species of vesicular stomatitis

Relevance for WOAH Disease Control, Standard Setting,

Relevance for the Code or Manual Manual,

Field Diagnostics,

Animal Category Terrestrial,

Disease:

Kind of disease (Zoonosis, Transboundary diseases) Zoonosis, Differential diagnosis for FMD,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer: CHAPTER 3.1.25. VESICULAR STOMATITIS

Notes:

Answer:

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 continuously collects epizootiological data from countries in the region to carry out epidemiological analyses that will guide future actions against foot-and-mouth disease under each country's Action Plan. Every year, Panaftosa consolidates epidemiological data from the 13 members countries da Cosalfa (South American Commission for the Fight Against Foot-and-Mouth Disease) - Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Guyana, Panama, Paraguay, Peru, Suriname, Venezuela, and Uruguay - and present it at the annual meeting, the report of which is published in IRIS.

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:

All epidemiological data on foot-and-mouth disease is published on the PAHO website (IRIS-PAHO - <https://iris.paho.org/>).

Example: COSALFA 49 - 2023. <https://iris.paho.org/discover?scope=%2F&query=cosalfa+49&submit=>

Cosalfa 50 awaiting publication.

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 with their respective references.

Link catalog of publications (1951-2023): <https://iris.paho.org/handle/10665.2/60937>

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:

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Lima DM, Chaparro DCL, Mancera VMM, Merchán JAV, Roman ACK, Buzanovsky LP, Cosivi O, Sanchez-Vazquez MJ. Livestock and environmental characterization of Colombian municipalities: study of vesicular stomatitis. *Front Vet Sci.* 2024 Mar 26;11:1323420. doi: 10.3389/fvets.2024.1323420. Available at: <https://pubmed.ncbi.nlm.nih.gov/38596461/>

Álvarez, A.M., Alcazar, W., Buzanovsky, L.P., Lima, D.M., Vásquez, M.J.S., Fonseca Júnior, A., Almeida, I.G., Pituco, E.M., Allende, R.M. Molecular analysis and environmental description of Vesicular Stomatitis New Jersey viruses isolated in Venezuela from 2009 to 2017, *Arquivos do Instituto Biológico*, Printed version ISSN: 0020-3653 Online version ISSN: 1808-1657. Available at: <https://www.scielo.br/j/aib/a/Gv3t77QmJdgbNT8rQXzgY7b/>

b) International conferences:

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SIMULATED EXERCISE OF ATTENTION TO SUSPECTED VESICULAR DISEASE

Conference theme: Vesicular stomatitis and other differential diagnosis of vesicular and confundible diseases with FMD

1. Teresópolis, Rio de Janeiro, Brazil, August 4th to 9th, 2024
2. Maceió, Alagoas, Brazil, October, 21st to 25th, 2024
3. João Pessoa, Paraíba, Brazil, November 25th to 29th, 2024

50ª REUNIÓN ORDINARIA DE LA COMISIÓN SUDAMERICANA PARA LA LUCHA CONTRA LA FIEBRE AFTOSA - COSALFA 50 (2024):

- 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 50. Status Report on the FMD Eradication Programs in South America and Panama in 2022 and 2023. Available at: https://www.paho.org/sites/default/files/informe_situacion-fa-2022-2023-final_0.pdf
Vesicular disease surveillance data, vesicular stomatitis and senecavirus included, are described on COSALFA report.

INTERNATIONAL SEMINAR PRE-COSALFA 50: Getting Close to Regional Eradication: Half a Century of Progress - PRE-COSALFA 50 SEMINAR (2024):

- 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). PRE-COSALFA 50 - Getting close to Regional Eradication: half a century of progress.

During the seminar, all Cosalfa member countries presented surveillance data on vesicular disease, including vesicular stomatitis. Conference agenda and data are published at: <https://iris.paho.org/handle/10665.2/60648>

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 : 0

c) Hands-on training courses: 122

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	VENEZUELA	1
C	PARAGUAY	1
C	BRAZIL	40
C	BRAZIL	50
C	BRAZIL	30

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 ACREDITAÇÃO_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?H?

No

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

No

TOR10: NETWORK WITH WOA?H REFERENCE LABORATORIES

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

Yes

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

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOA?H 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 WOA?H Ref. Labs/ organising WOA?H Ref Lab
VSV Viral Neutralization test	organiser	5	APHIS (USA)
VSV Molecular biology tests	organiser	15	APHIS (USA)

26. Did your laboratory collaborate with other WOA?H 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?H Reference Laboratories for the same pathogen during the past 2 years?

No

No inter-laboratory test comparisons have been made in the last two years.

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Advisor	Paris	-

29. Additional comments regarding your report:

No