

# WOAH Reference Laboratory Reports Activities 2025

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## LABORATORY INFORMATION

<b>*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:</b>	Foot and mouth disease
<b>*Address of laboratory:</b>	Av. Governador Leonel de Moura Brizola, 7778, São Bento, Duque de Caxias, RJ, Brazil, CEP 25045-002
<b>*Tel:</b>	+55 21 3661 9064
<b>*E-mail address:</b>	pitucoedv@paho.org
<b>Website:</b>	www.paho.org/en/panaftosa
<b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>	Ottorino Cosivi, Veterinarian, Director Pan American Center for Foot and Mouth Disease - PANAFTOSA-PAHO/WHO
<b>*Name (including Title and Position) of WOAH Reference Expert:</b>	Edviges Maristela Pituco, Veterinarian (PhD), Head of Reference Laboratory of Pan American Center for Foot and Mouth Disease - PANAFTOSA-PAHO/WHO
<b>*Which of the following defines your laboratory? Check all that apply:</b>	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 WOAH Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
<b>Indirect diagnostic tests</b>			
ELISA 3ABC	Yes	0	72
ELISA CFL	Yes	0	76
<b>Direct diagnostic tests</b>			
Virus Neutralization	Yes	0	4058
Typing ELISA	Yes	0	172
Real Time PCR	Yes	0	83
Lateral Flow Device (LFD)	Yes	0	116

## TOR2: REFERENCE MATERIAL

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

Yes

Type of reagent available	Related diagnostic testing	Produced/ imported	Quantity supplied nationwide (ml, mg)	Quantity supplied at international level (ml, mg)	Name of beneficiary WOAH Member Countries

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

Yes

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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
Kit NCPanaftosa ELISA FMD gIII	FMD NSP antibodies detection	produced	non applicable	183 kits	10	ARGENTINA, BRAZIL, COLOMBIA, ECUADOR, GUYANA, PARAGUAY, PERU, SURINAME, URUGUAY, VENEZUELA,
Kit NCPanaftosa EITB	FMD NSP antibodies detection	produced	non applicable	39 kits	9	ARGENTINA, BRAZIL, COLOMBIA, ECUADOR, KOREA (REP. OF), PARAGUAY, PERU, SURINAME, URUGUAY, VENEZUELA,
LPBE ELISA (ELISA CFL)	FMD SP antibodies detection	produced	non applicable	98 kits	7	BRAZIL, COLOMBIA, PARAGUAY, PERU, SURINAME, URUGUAY, VENEZUELA,
Ag Typing ELISA	FMDV/VSV Antigen Typing	produced	non applicable	19 kits	8	BRAZIL, COLOMBIA, ECUADOR, MEXICO, PARAGUAY, PERU, URUGUAY, VENEZUELA,
Cell lines	Vaccine production	produced	non applicable	19	4	ARGENTINA, EGYPT, PARAGUAY, URUGUAY,
Reference standard	Molecular biology	produced	non applicable	178	5	CHILE, COLOMBIA, ECUADOR, PARAGUAY, PERU,
Antisera NSP and SP (reference material)	Antibody detection	produced	non applicable	24	5	ARGENTINA, COLOMBIA, ECUADOR, INDIA, PERU,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA Member Countries?

## 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 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 WOA Standards for the designated pathogen or disease?

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

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
GUYANA	Technical support	Virtual meeting or technical support at distance. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.

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URUGUAY	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
COLOMBIA	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
ECUADOR	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
PERU	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
BRAZIL	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
PARAGUAY	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
TRINIDAD AND TOBAGO	Technical support	Virtual meeting or technical support at distance. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
		Virtual meeting or technical support at distance. Support the country FMD

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CHILE	Technical support	programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
BOLIVIA	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
ARGENTINA	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
VENEZUELA	Technical support	Restoration of the FMD control program in Venezuela. PANAFTOSA provided technical cooperation to INSAI (public sector) and Funvessa (private sector). The main objective of enhancing the country's vaccination strategy and giving continuity and effectiveness to the FMD program. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
EGYPT	Technical support	Supply of reference material
INDIA	Technical support	Supply of reference material
SAUDI ARABIA	Technical support	Supply of reference material and technical support at distance.
GUATEMALA	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical meeting to discuss the technical cooperation demands for the current year.
HONDURAS	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free.
PANAMA	Technical support	Virtual meeting or technical support at distance. Support the country FMD programs: improve the prevention and preparedness measures and maintain their status of FMD free. At the beginning of each year: technical

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meeting to discuss the technical cooperation demands for the current year.

## 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
FMD - Post-vaccination monitoring in cattle herd	5 years	Temporal monitoring of the vaccination response of a cattle herd	Biological Institute of São Paulo - IBSP Ministry of Agriculture and Livestock	BRAZIL
Potency testing of monovalent vaccines on bovines: studies to support BANVACO and production of a reference serum panel (serotypes O1 Campos and A24 Cruzeiro).	2 years	Generating information to facilitate decisions. Establish a strategy for use in the event of an animal health emergency in the South American region.	Ministry of Agriculture and Livestock	BRAZIL
Validation of commercial rapid tests (lateral flow device) for the detection of FMD.	2 years	Check the sensitivity of the rapid tests available on the market.	Ministry of Agriculture and Livestock	BRAZIL
Development of a rapid test (lateral flow device) for detecting foot-and-mouth disease.	3 years	In vesicular disease investigations, using rapid field tests to rule out (or confirm) foot-and-mouth disease is an important tool for agility required at the current stage of eradicating the disease in the Americas. The objective is developing a new test to respond to field demands.	Ministry of Agriculture and Livestock	BRAZIL

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

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 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 Hemispheric Program for the Eradication of Foot-and-Mouth Disease (PHEFA). 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, access in: <https://iris.paho.org/items/9b35a149-20fc-45e8-8a6a-c1abdb888572> and [https://www.paho.org/sites/default/files/informe\\_situacion-fiebreaftosa-2024b\\_0.pdf](https://www.paho.org/sites/default/files/informe_situacion-fiebreaftosa-2024b_0.pdf)

In 2025, up to July, 667 establishments — including cattle and pig herds — were tested for suspected vesicular disease (data not yet consolidated).

Panaftosa conducted, in 2025, studies for surveillance purposes for vesicular disease (using RT-PCR or serological tests) and post-vaccination immunity against foot-and-mouth disease (FMD). In surveillance strategies, serological studies are complementary, helping to demonstrate the absence of viral circulation in territories (NSP test) and to evaluate the effectiveness of vaccination campaigns (SP test). These studies to demonstrate the absence of viral circulation and post-vaccination immunity against foot-and-mouth disease (FMD) are carried out in FMD-free countries with vaccination, supported by PANAFOTOSA (diagnostic kits, experimental design, data consolidation and preparation and publication of the report at the annual COSALFA).

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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:

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

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 (1951-2025): <https://iris.paho.org/handle/10665.2/69677>

In addition to publications, Panaftosa holds periodic technical meetings with the Official Animal Health Service of all countries in the American continent to identify technical cooperation needs and assess the epidemiological situation of vesicular diseases.

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

Cardenas NC, dos Santos DV, Magalhães Lima D, Daza Gutierrez HO, Gareca Vaca DR, Machado G. Foot-and-Mouth Disease in Bolivia: simulation-based assessment of control strategies and vaccination requirements. *Transbound Emerg Dis.* 2025; 1. Available from: <https://doi.org/10.1155/tbed/9055612>

b) International conferences:

18

**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:

- concepts and practical experience regarding the animal health emergency management system;
- the profile and skills required for professionals who perform the functions of managers and executors of contingency plans in animal health emergencies.
- and the responsibilities and duties inherent to acting as managers and executors of the National FMD Contingency Plan.

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 Foot-and-Mouth Disease 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 transboundary animal diseases that impact livestock production.

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

**20th MERCOSUR VIROLOGY MEETING**

Zélia Inês Portela Lobato, Ângela Jardim Duarte Vieira, Amanda Schmidt Passos, Edviges Maristela Pituco, Brenda Leticia Leal dos Santos Silva, Marcelo Fernandes Camargos, Antonidio Silva Lima, Maria Isabel Maldonado Coelho Guedes, Beatriz Senra Alvares da Silva Santos. DEVELOPMENT AND LABORATORY VALIDATION OF A LATERAL FLOW IMMUNOCHROMATOGRAPHY TEST FOR DETECTION OF FOOT-AND-MOUTH DISEASE VIRUS IN CLINICAL SAMPLES. 20th Mercosur Virology Meeting, November 20th – 23rd, 2025, Belo Horizonte - MG, Brazil.

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INTERNATIONAL SEMINAR – PRE-COSALFA 51 - The last year of the 2021-2025 Action Plan of the PHEFA - 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) - Conference agenda and data are published at: <https://www.paho.org/en/panaftosa/cosalfa-51#seminario>

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. COSALFA 51. Report of the ex officio Secretariat for the 51st Meeting of the South American Commission for the fight against Foot-and-Mouth Disease (COSALFA). Available at: <https://iris.paho.org/items/9fcb4dbe-4797-4deb-8a28-30cb9f6d9766>

- 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. COSALFA 51. Activities carried out by the PANAFTOSA laboratory 2024. Available at: [https://www.paho.org/sites/default/files/1.2\\_informe\\_de\\_actividades\\_del\\_laboratorio\\_de\\_panaftosa\\_2024\\_-\\_euclides\\_de\\_la\\_torre\\_0.pdf](https://www.paho.org/sites/default/files/1.2_informe_de_actividades_del_laboratorio_de_panaftosa_2024_-_euclides_de_la_torre_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. 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](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. Hemispheric Foot-and-Mouth Disease Eradication Program - Beyond the 2021/2025 Action Plan. Available at: [https://www.paho.org/sites/default/files/5\\_phefa\\_-\\_2021-2025\\_0.pdf](https://www.paho.org/sites/default/files/5_phefa_-_2021-2025_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. Foot-and-Mouth Disease outbreaks and response mechanisms and emergency preparedness in Europe. Available at: [https://www.paho.org/sites/default/files/brotos\\_fmd\\_europa-francesco\\_berlingieri-moritz\\_klemm\\_0.pdf](https://www.paho.org/sites/default/files/brotos_fmd_europa-francesco_berlingieri-moritz_klemm_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. Banvaco. Available at: [https://www.paho.org/sites/default/files/banvaco-cosalfa\\_51\\_0.pptx](https://www.paho.org/sites/default/files/banvaco-cosalfa_51_0.pptx)

- 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](https://www.paho.org/sites/default/files/laboratorios_nacionales_para_fiebre_aftosa_y_sus_diferenciales_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. Final report. 51st Ordinary Meeting of the South American Commission for the Fight Against Foot-and-Mouth Disease (Santa Cruz de la Sierra, Bolivia, April 03 – 04, 2025). Available at: <https://iris.paho.org/items/9b35a149-20fc-45e8-8a6a-c1abdb888572>

COMITÉ HEMISFÉRICO PARA LA ERRADICACIÓN DE LA FIEBRE AFTOSA (COHEFA) - 4ª Reunión Extraordinaria del COHEFA - Reunión en línea vía ZOOM | 16 de diciembre de 2025 - Conference agenda and data are published at: <https://www.paho.org/es/panaftosa/cohefa/4a-reunion-extraordinaria-cohefa>

BIENNIAL PLAN 2024-2025 FOR STRENGTHENING TECHNICAL COOPERATION FROM PANAFTOSA TOWARDS THE CONSOLIDATION OF THE HEMISPHERIC PROGRAM FOR THE ERADICATION OF FOOT-AND-MOUTH DISEASE (PHEFA). Available at: <https://iris.paho.org/items/a81ff02f-eed1-462b-bfc9-2bc0969a622f>

INFORME DE SITUACIÓN DE LOS PROGRAMAS DE ERRADICACIÓN DE LA FIEBRE AFTOSA EN SUDAMÉRICA Y PANAMÁ EN 2024. CENTRO PANAMERICANO DE FIEBRE AFTOSA Y SALUD PÚBLICA VETERINARIA, 2024. Available at: [https://www.paho.org/sites/default/files/informe\\_situacion\\_fiebreaftosa-2024\\_0.pdf](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:

0

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)	
ABNT NBR ISO/IEC 17025:2017 - General requirements for the competence of testing and calibration laboratories	Certificado ABNT NBR ISO/IEC 17025:2017/ILAC-MRA	Escopo creditação Panaftosa CRL1309.pdf
ABNT NBR ISO 17034:2017 - General requirements for the competence of reference material producers	Certificado ABNT NBR ISO 17034:2017/ILAC-MRA	Escopo PMR 0015 PANAFOTSA.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
I-ELISA 3ABC	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
ELISA 3ABC (block)	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
EITB	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
ELISA CFL O, A and C	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
Typing ELISA	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
Virus neutralization	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
FMD RT-PCR	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
FMD RT-qPCR	CGCRE/INMETRO - Brazil - ABNT NBR ISO/IEC 17025:2017
Certified Reference Material (CRM) of positive standard serum for Foot and Mouth Disease - kit ELISA FMD gIII	CGCRE/INMETRO - Brazil - ABNT NBR ISO 17034:2017

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Certified Reference Material (CRM) of positive standard serum for Foot and Mouth Disease - kit EITB	CGCRE/INMETRO - Brazil - ABNT NBR ISO 17034:2017
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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?

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
20th Annual Meeting OIE/FAO Reference Laboratories	2025-10-23	Istanbul, Turkey	Speaker	Panaftosa Laboratory Activities in 2025 - Pool 7: South America

## 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. Are you a member of a network of WOA?H Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA?H REF. LABS
WOA?H/FAO FMD Reference Laboratory Network	Participant	15	- French Agency for Food, Environmental and Occupational Health & Safety (ANSES), France - Agricultural Research Council - Onderstepoort Veterinary Research (ARC-OVR), South Africa - OIE Sub-Saharan Africa Regional Reference Laboratory (SSARRL) for FMD, Botswana - Foreign Animal Disease Diagnostic Laboratory (FADDL), USA - Federal Governmental Budgetary Institution - Federal Centre for Animal Health (FGBI "ARRIAH"), Russia - ICAR-National Institute on Foot and Mouth Disease, India - Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER), Italy - Lanzhou Veterinary Research Institute (LVRI), People's Republic of China - National Centre for Foreign Animal Disease (NCFAD), Canada - Centro Panamericano de Fiebre Aftosa y Salud Pública Veterinaria (PANAFTOSA/VPH), PAHO/WHO - Animal and Plant Quarantine Agency (QIA), Republic of Korea - Regional Reference Laboratory for FMD in South East Asia (RRLSEA), Thailand - Sciensano, Belgium - Servicio Nacional de Sanidad Y Calidad Agroalimentaria (SENASA), Argentina - World Reference Lab for Foot and Mouth Disease (WRLFMD), United Kingdom

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25. Did you organise or participate in inter-laboratory proficiency tests with WOA 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 Ref. Labs/ organising WOA Ref Lab
FMD antigen detection test	participant	15	Not reported by the provider
FMD molecular biology test	participant	15	Not reported by the provider
FMD NSP antibody detection test	participant	50	Not reported by the provider
FMD SP antibody detection test	participant	50	Not reported by the provider
FMD antigen detection test	organiser	14	Argentina, Canada, Rússia and United States
FMD molecular biology test	organiser	18	Argentina, Canada, Rússia and United States
FMD NSP antibody detection test	organiser	23	Argentina, Canada, Rússia and United States
FMD SP antibody detection test	organiser	17	Argentina, Canada, Rússia and United States

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?

Yes

Title of the project or contract	Scope	Name(s) of relevant WOA Reference Laboratories
Vaccine matching of South American isolates with six foot-and-mouth disease vaccine strains used in vaccines available worldwide.	Virus neutralisation test (VNT) to evaluate the antigenic relationship between the vaccines and representative viruses from South America, to predict the ability of current FMD vaccines to provide protection against these exotic lineages.	The Pirbright Institute, United Kingdom

## 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 <sup>1</sup>	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	10	FMD antigen detection	BRAZIL, COLOMBIA, ECUADOR, MEXICO, PANAMA, PARAGUAY, PERU, URUGUAY, VENEZUELA,
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	FMD molecular biology test	BOLIVIA, BRAZIL, CHILE, COLOMBIA, ECUADOR, GUYANA, MEXICO, PANAMA, PARAGUAY, TRINIDAD AND TOBAGO, URUGUAY,
Evaluation of performance and continuous monitoring of laboratories for specific tests; Identification of issues in participating laboratories, proposing improvement actions	Organizer	20	FMD NSP antibody detection test	BOLIVIA, BRAZIL, CHILE, COLOMBIA, ECUADOR, GUYANA, PARAGUAY, PERU, SURINAME, TRINIDAD AND TOBAGO,

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such as training, consultancy, or other applicable means.

URUGUAY, VENEZUELA,

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

FMD SP antibody  
detection test - ELISA/SP

BRAZIL, COLOMBIA, PARAGUAY,  
SURINAME, URUGUAY,  
VENEZUELA,

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

4

FMD SP antibody  
detection test - virus  
neutralisation test (VNT)

BRAZIL, COLOMBIA, ECUADOR,

VETQAS - Evaluation of performance and continuous monitoring of laboratories for FMD specific tests.

participant

26

FMD NSP antibody  
detection test

BRAZIL, CYPRUS, GHANA,  
JORDAN, SERBIA, THE  
NETHERLANDS, UNITED ARAB  
EMIRATES, UNITED KINGDOM,  
ZAMBIA,

VETQAS - Evaluation of performance and continuous monitoring of laboratories for FMD specific tests.

participant

4

FMD SP antibody  
detection test (ELISA SPCE  
/ LPBE)

BRAZIL,

VETQAS - Evaluation of performance and continuous monitoring of laboratories for FMD specific tests.

participant

2

Virus neutralisation test

BRAZIL,

## TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Participation as an Expert in the WOA Ad Hoc Group for FMD Status (2025)	Paris, France	To review and discuss the applications submitted by countries seeking endorsement of their Foot-and-Mouth Disease (FMD) control program by WOA, or official recognition of their FMD-free status, with or without vaccination. To make recommendations on the guidelines used for country applications.

29. Additional comments regarding your report:

Yes

*Title of activity: Support on activities of the Regional Antigen/vaccine bank for FMD (BANVACO).*

*Scope: The BANVACO has formally started its work on August 2025 PANAFTOSA promoted two ordinary meetings of Banvaco members (Brasil, Ecuador, Paraguay and Uruguay).*

*Title of activity: Attendance on the Global Coordination Committee on FMD (GCC-FMD).*

*Scope: The main objectives are sharing experiences and lessons learned, facilitate coordination and alignment of regional FMD control initiatives, and to develop a harmonized 5-year global FMD action plan for the last phase of the FMD Global Strategy for final endorsement by the GF-TADS. As has been the case every year, during 2025, the GCC worked to define the priorities and the action plan.*

*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.*

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*Title of activity: Strengthen the analytical capacity of official veterinary services in epidemiology and risk analysis.*

*Scope: PANAFTOSA/PAHO participated in the Regional Program for Systematic Education of Veterinary Services (ProgRESSVet) - Cohort East Africa: Training in Epidemiology of Transboundary Diseases - Partnership with CAHFS. Countries: BWA, BDI, CPV, DJI, EGY, ERI, ETH, CIV, KEN, MAR, MOZ, NAM, NGA, RWA, SEN, SOM, ZAF, SSD, TZA, TUN, UGA.*