

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-19 18:25:39

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Rabies
Address of laboratory:	Av. Centenario de la Educación s/n (Km 37.5 Carretera Federal México - Pachuca) 55740, Tecámac de Felipe Villanueva Tecámac, Estado de México MEXICO
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Website:	https://www.gob.mx/senasica/acciones-y-programas/el-centro-nacional-de-servicios-de-diagnostico-en-salud-animal
Name (including Title) of Head of Laboratory (Responsible Official):	MVZ Rogelio Estrada Rodriguez Direc del Centro Nacional de Servicios de Diagnóstico en Salud Animal (CENASA)
Name (including Title and Position) of OIE Reference Expert:	Dr. José Alvaro Aguilar Setién Investigador
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Secuenciación	Sí	156	0
RT-PCR Tiempo Real	Sí	24	0
FAVN	Sí	105	6
Direct diagnostic tests			
Inmunofluorescencia	Si	1219	0
Aislamiento viral en cultivo celular de nueroblastoma	Si	2	0
Aislamiento viral en ratón	Si	2	0

ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.

To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

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

Yes

NOTE: Currently, there are 22 laboratories that produce Standard Reference Reagents officially recognised by the OIE for 19 diseases/pathogens. Please click the following link to the list of OIE-approved International Standard Sera:

<http://www.oie.int/en/our-scientific-expertise/veterinary-products/reference-reagents/>. If the reagent is not listed on this page, it is NOT considered OIE-approved. The next two questions allow you to indicate non-OIE-approved diagnostic reagents.

Disease		Test	Available from		
Type of reagent available	Related diagnostic test	Produced/ Supply imported	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient OIE Member Countries
Conjugado FITC Globulina monoclonal anti-rabia liofilizada Fujirebio	Inmunofluorescencia	Si	<input type="radio"/> <10mL <input checked="" type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	<input checked="" type="radio"/> <10mL <input type="radio"/> 10-100mL <input type="radio"/> 100-500mL <input type="radio"/> >500mL	MEXICO

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

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

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

Yes

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
Construcción de una línea celular reportera para la detección de la infección del virus de la Rabia.	Construcción de una línea celular reportera para la detección de la infección del virus de la Rabia.El desarrollo de esta prueba permitirá evaluar la infección tanto de cepas de referencia del RABV como aislados primarios obtenidos de muestras de origen humano o animal. https://drive.google.com/file/d/1RTiK0j0x5ivBLSPTmUSK4hulpt8Q33Ow/view?usp=sharing

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
GUATEMALA	Procedimientos para exportación de mascotas	Información sobre los requisitos, costos y métodos de pago para las pruebas de Titulación de anticuerpos contra la Rabia en mascotas con fines de exportación a EEUU.

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
Caracterización molecular del virus de la rabia en animales en los países de Centro América, Universidad de Glasgow-OIRSA	2 años	Dilucidar la epidemiología molecular de la rabia en la región	Laboratorios de México y Países Centroamericanos Miembros de la OIRSA	BELIZE COSTA RICA EL SALVADOR GUATEMALA HONDURAS MEXICO NICARAGUA PANAMA

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
Reportes semanales de brotes de rabia parálitica bovina en la República Mexicana https://www.gob.mx/senasica/documentos/informes-zoosanitarios-semanales-2021?state=published

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:
Se divulgaron datos sobre los brotes de rabia parálitica bovina en el país en el periodo, constatándose un avance de la enfermedad.

13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)

a) Articles published in peer-reviewed journals: 1

Aréchiga-Ceballos, N.; Puebla-Rodríguez, P.; Aguilar-Setién A. The new face of human rabies in Mexico, what's next after eradicating rabies in dogs. Vector Borne Zoonotic Dis 2022, in press.

b) International conferences: 1

1. Reyes IN, Rodriguez RE, Zamora FP, Robles GP, CENASA-México: Challenges in diagnosing rabies in a pandemic, Rabies in the Americas (RITA) conference, Brazil 2021, http://rita2021.com.br/index_es.html

c) National conferences: 2

1. Curso Virtual de Rabia 2021 para la Red Nacional de Laboratorios de Salud Pública. , Reyes NI, "Continuidad de las actividades como laboratorio de diagnóstico de rabia ante la pandemia".

2. Actualización en la Campaña Nacional para la prevención y control de la rabia en bovinos y especies ganaderas 2021-Guanajuato. Reyes NI, "Pruebas de Aptitud para la estandarización del diagnóstico de la rabia en los laboratorios autorizados por el SENASICA"

d) Other:

(Provide website address or link to appropriate information) 1

1.- Reyes IN, Rabia en equino transmitida por zorrillo, Boletín AVISE-CPA 2021, 15, 10-11

<https://issuu.com/boletinavise>

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 1

b) Seminars: 0

c) Hands-on training courses: 1

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
a. Capacitación en el diagnóstico de rabia por Inmunofluorescencia directa	República del Salvador	Arling Vanessa Hernandez Mazariego
c. Capacitación técnica la prevención y control de rabia en bovinos y especies ganaderas	Honduras	Personal de SENASICA Honduras , 8 personas

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO17025	21LP3413 21LP3414 21LP3415_SA_Anexo Técnico.pdf
ISO 9001	Certificado IQNET CENASA CALIDAD.pdf
ISO 17043	Proveedor Ensayos de Aptitud Rabia.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Inmunofluorescencia	Entidad Mexicana de Acreditación
secuenciacion	Entidad Mexicana de Acreditación
PCR	Entidad Mexicana de Acreditación
Aislamiento viral	Entidad Mexicana de Acreditación
Seroneutralización	Entidad Mexicana de Acreditación

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

Yes

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

20. Did your laboratory exchange information with other OIE Reference Laboratories designated for the same pathogen or disease?

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
Especificidad de la prueba	Prueba de desempeño 2021 para la detección del virus de la rabia por Inmunofluorescencia.	4	ANSES Francia

¹ validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Estandarización de resultados , con laboratorios que procesan muestras de humanos y animales involucrados en casos humanos	2	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
Revisión de las Normas de la OIE	Virtual, coordinador Thomas Müller, Alemania	Reducción del periodo de cuarentena de 3 meses a 30 días

25. Additional comments regarding your report:

La pandemia COVID 19 afecto las actividades usuales del laboratorio.

Se envía disposición de personas del SENASICA que pueden ser consultadas:

Israel Nicolas Reyes, para temas de diagnóstico y titulación de anticuerpos antirrábicos.

israel.nicolas@senasica.gob.mx

Baltazar Cortes Garcia, para temas epidemiológicos de la Campaña Nacional contra la Rabia en México.

baltazar.cortes@senasica.gob.mx

Edwin Ulises Nieves Garcia, para temas de secuenciación genómica en rabia edwin.nieves@senasica.gob.mx

Georgina Robles Pesina para temas de sistema de Gestión de calidad en laboratorios de Rabia y control de calidad de vacunas de Rabia. georgina.robles@senasica.gob.mx