WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 26 avril 2023 10:07

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Encefalopatía espongiforme bovina
Address of laboratory:	Centro de Investigación en Encefalopatías y Enfermedades Transmisibles Emergentes. Universidad de Zaragoza. C/ Miguel Servet, 177 50013 Zaragoza SPAIN
Tel.:	34976762947
E-mail address:	badiola@unizar.es
Website:	http://centroeets.unizar.es/
Name (including Title) of Head of Laboratory (Responsible Official):	Dra Marta Monzón Garcés
Name (including Title and Position) of WOAH Reference Expert:	Prof. Juan José Badiola Díez. Catedrático de Sanidad Animal. Director del Centro de Investigación en Encefalopatías y Enfermedades Transmisibles Emergentes
Which of the following defines your laboratory? Check all that apply:	Academic institution

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	
Indirect diagnostic tests		Nationally	Internationally
DEXX herdCheck BSE antigen test kit, EIA ELISA	SÍ	1.708	
Direct diagnostic tests		Nationally	Internationally

TOR2: REFERENCE MATERIAL

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

No

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

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOAH MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
Viales con homogeneizado de tejido nervioso pertenecientes a bovinos para la realización de un ensayo interlaboratorial para la técnica de diagnóstico de la EEB	IDEXX ELISA	Producido/ suministrado		16 - 24 gr	1	America
Cortes de tejido nervioso pertenecientes a muestras bovinas (fijadas en formol, incluidas en parafina y adicionalmente inactivadas con ácido fórmico) con el objeto de que se realicen las técnicas de diagnóstico para la EEB.	Inmunohistoquimica para el diagnóstico de EEB	Producido/ suministrado		2 gr	1	America

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAH Members?

Not applicable

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 WOAH 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 WOAH Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
BRAZIL	Disponer de Proficiency Test for Rapid Tissue Test (ELISA) e inmunohistoquímica para EEB con acreditación ISO 17043. Así como de material de referencia certificado o no certificado.	Ante la solicitud realizada por el país, se mostró la disposición para proporcionar material de referencia. También se comunicó la disponibilidad de ambas técnicas acreditadas, además de la intención de establecer la ISO17043.
CHILE	Mantener actualizados los protocolos de actuación ante una muestra sospechosa de EEB.	Ante su consulta sobre la forma de preservación de la muestra en caso de necesidad de su envío para el diagnóstico de confirmación de EEB, se envió indicaciones al respecto.
GUATEMALA	Acceder a protocolos de bioseguridad en la manipulación del agente de la EEB.	Se envió documentación impartida previamente en curso de formación acerca de bioseguridad en el manejo de agentes de las EET.
PARAGUAY	Solicitar una pasantía en nuestras instalaciones en relación con la técnicas de diagnóstico de inmunohistoquímica para la confirmación de la EEB.	Se llevaron a cabo todos los trámites para la estancia de dos Doctores veterinarios del Servicio Nacional de Calidad y Salud Animal - SENACSA en Septiembre - Octubre del 2022 en nuestro Centro. Finalmente se ha pospuestoal mes de Febrero y Marzo dell año 2023 a petición de los solicitantes.

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH 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:
Se recogen datos para remitir al Ministerio de Agricultura, Pesca y Alimentación para su divulgación.

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

No

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:

2

1. Otero A, Barrio T, Eraña H, Charco JM, Betancor M, Díaz-Domínguez CM, Marín B, Andréoletti O, Torres JM, Kong Q, Badiola JJ, Bolea R, Castilla J. Glycans are not necessary to maintain the pathobiological features of bovine spongiform encephalopathy. PLoS Pathog. 2022 Oct 7;18(10):e1010900. doi: 10.1371/journal.ppat.1010900. PMID: 36206325; PMCID: PMC9581369.

2. Hernaiz A, Toivonen JM, Bolea R, Martín-Burriel I. Epigenetic changes in Prion and Prion-like neurodegenerative diseases: Recent advances, potential as biomarkers, and future perspectives. Int J Mol Sci. 2022 Oct 20;23(20):12609. doi: 10.3390/ijms232012609. PMID: 36293477; PMCID: PMC9604074.

b) International conferences:

1

Autores: Garcés M., Pérez J., Sarría F.J., Peña J., Hernández R.S., Sarasa R., Badiola J.J., Monzón M.

Título: An approach to microglial biology in neurodegeneration through a morphological study in prion cases as natural model

Tipo de participación: Póster

Congreso: Neurodegenerative diseases: Biology & Therapeutics

Publicación: Proceedings

Lugar de celebración: Cold Spring Harbor, NY (virtual) Fecha: 30 Nov-3 Dic 2022

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 WOAH Members?

Yes

a) Technical visit :

b) Seminars : Seminario de formación online sobre "Asistencia técnica para la elaboración del protocolo de selección, manejo, conservación y envío de mpor Ministeuestras para diagnóstico de laboratorio de la Encefalopatía espongiforme bovina" organizado rio de Agricultura de Guatemala en el marco de un programa de la Unión Europea para pequeñas y medianas empresas y cooperativas.

c) Hands-on training courses:

d) Internships (>1 month)

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
	Guatemala	57

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
UNE-EN ISO/IEC 17025:2017	pdf	CERT_1951_LE_1663_rev2-6.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ELISA IDEXX	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
PRIO STRIPS PRIONICS	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
HISTOLOGÍA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
NMUNOHISTOQUÍMICA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)

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

Yes

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

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

No

24. Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?

Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?

No

26. Did your laboratory collaborate with other WOAH 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 WOAH Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOAH Member Countries
Comprobar la capacidad de los laboratorios participantes en diagnosticar muestras de EEB, mediante el empleo de técnicas de diagnóstico rápido autorizadas en la UE.	PARTICIPANTE	18	Europe
Determinar la aptitud de un laboratorio para efectuar pruebas de diagnóstico de la EEB (Nicaragua).	ORGANIZADOR	2	America
Determinar la aptitud de un laboratorio para efectuar pruebas de diagnóstico de la EEB (Guatemala).	ORGANIZADOR	2	America

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)

29. Additional comments regarding your report:

Yes

Se mantiene la relación con el laboratorio responsable del diagnóstico de EEB en Paraguay con el que está previsto llevar a cabo la capacitación de personal especializado en técnicas de diagnóstico de EEB.
Como comentario general debe tenerse en cuenta que desde la Pandemia Covid-19 ha reducido de forma muy importante la organización de Congresos sobre enfermedades priónicas lo que ha afectado a la actividad de nuestro laboratorio.