

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 3 mai 2024 13:49

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Encefalopatía espongiforme bovina
Address of laboratory:	Centro de Encefalopatías y Enfermedades Transmisibles Emergentes. Universidad de Zaragoza. C/ Miguel Servet, 177 50013 Zaragoza SPAIN
Tel.:	+34-976 76 2947
E-mail address:	badiola@unizar.es
Website:	http://centroeets.unizar.es/
Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Marta Monzón Garcés
Name (including Title and Position) of WOAHO Reference Expert:	Prof. Juan José Badiola Díez. Fundador y Director Honorífico del Centro de 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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
IDEXX herdCheck BSE antigen test kit, EIA ELISA		1874	0
Direct diagnostic tests			
		Nationally	Internationally

TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAHO 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 WOAAH 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 WOAAH Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOAAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
PARAGUAY	Aprender y adquirir experiencia en técnicas rápidas (IDEXX herdCheck BSE antigen test kit, EIA ELISA) y de confirmación (histopatología/ inmunohistoquímica) para EEB	El Dr José Jacquet realizó una pasantía en nuestras instalaciones durante dos semanas (Febrero - Marzo)
PARAGUAY	Disponer de material de referencia certificado con el objeto de establecer en su Centro la técnica de inmunohistoquímica adquirida en nuestro lab	Ante la solicitud realizada por el país, se han iniciado los trámites para el envío de material de referencia.
EL SALVADOR	Implementar las pruebas de laboratorio destinadas al diagnóstico de EEB con el objetivo general de obtener el reconocimiento de estatus zoonosanitario ante OMSA	Envío de los protocolos de inmunohistoquímica e histopatología para el diagnóstico de EEB utilizados y validados en nuestro laboratorio, así como resolución de varias dudas surgidas en relación con ellos
CANADA	Presentar al nuevo Director del lab WOAAH para EEB en Canadá sustituyendo al Dr. Stefainie Czub por jubilación en 2020/21, y acceder a información sobre protocolos y disponibilidad para colaborar en tareas de tipificación de cepas del agente causal de EEB, así como de la metodología de acreditación ISO que se está aplicando en nuestro lab	Ante la invitación realizada por el país, se mostró la disposición para cualquier aspecto relacionado con el programa de vigilancia de EEB. También se comunicó la disponibilidad de las técnicas acreditadas por UNE-EN ISO/IEC 17025.
COLOMBIA	Presentar resultados sobre la prueba de inmunohistoquímica para EEB ante la OMSA y mantener su estado de riesgo insignificante para esta enfermedad	En respuesta a la petición por parte del país de su participación en un interlaboratorio para EEB, se ha iniciado dicha prueba interlaboratorio disponiendo de las muestras preparadas para su envío tan pronto dispongan de la documentación requerida para ello.

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

Yes

Research need : 1

Please type the Research need: La facilitación de la colaboración internacional seguro ayudaría a la actualización de las normas

Relevance for WOA Facilitation of international collaboration,

Relevance for the Codes or Manual

Field

Animal Category

Disease:

Kind of disease (Zoonosis, Transboundary diseases)

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:

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:

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:

3

- Betancor M, Marín B, Otero A, Hedman C, Romero A, Barrio T, Sevilla E, Douet JY, Huor A, Badiola JJ, Andréoletti O, Bolea R. Detection of classical BSE prions in asymptomatic cows after inoculation with atypical/Nor98 scrapie. *Vet. Res.* 2023; 54(1): 89. DOI: 10.1186/s13567-023-01225-2.

- Lorenzo NL, Pérez-Lázaro S, Sola D, Marco- Lorente PA, Otero A, Badiola JJ, Bolea R, Requena JR. 2023. Prion zoonoses. In: Aguilar-Marcelino L, Zafar MA, Abbas RZ and Khan A (eds). *Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan. Vol 3: 52-66. DOI.org/10.47278/book.zoon/2023.85.*

- Sola D, Artigas R, Mediano DR, Zaragoza P, Badiola JJ, Martín-Burriel I, Acín C. Novel polymorphisms in the prion protein gene (PRNP) and stability of the resultant prion protein in different horse breeds. *Vet. Res.* 2023; 54(1): 94.

b) International conferences:

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- Sola D, Artigas R, Zaragoza P, Martín-Burriel I, Badiola JJ, and Cristina Acín. PRNP gene polymorphisms in 20 horse breeds. 11th Iberian Congress on Prions. Barcelona, Spain. 11 y 12 mayo 2023

- Sevilla E, Otero A, Badiola JJ, Bolea R. Center for Encephalopathies and Transmissible Emerging Diseases, a Reference Laboratory for Transmissible Spongiform Encephalopathies. One health conference. Dubai, Emiratos árabes unidos. 23 Junio 2023

- Betancor M, Marín B, Otero A, Hedman C, Romero A, Barrio T, Sevilla E, Douet JV, Huor A, Badiola JJ, Andréoletti O, Bolea R. Detection of classical BSE prions in asymptomatic cows after inoculation with atypical/Nor98 scrapie. PRION 2023. Faro, Portugal. 16 - 20 Octubre 2023.

c) National conferences:

d) Other (Provide website address or link to appropriate information):

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TESIS DOCTORAL

Contribuciones al estudio de biomarcadores, terapia y fenómeno de cepas en las enfermedades priónicas. Marina Betancor Caro. Marzo de 2023.

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAHA Members?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO17025	pdf	CERT_1951_LE_1663_rev2.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)
HISTOPATOLOGÍA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)
INMUNOHISTOQUÍMICA	ENAC (ENTIDAD NACIONAL DE ACREDITACIÓN)

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

Yes

La evaluación del riesgo biológico, tras la notificación del primer uso desde el laboratorio, corresponde a la Unidad de Prevención de riesgos laborales (UPRL) de la Universidad de Zaragoza. Para la gestión del riesgo biológico en el laboratorio, recientemente (Julio 2023) se ha conseguido el nombramiento de un Técnico Superior de Bioseguridad exclusivo para el Centro.

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOAHA REFERENCE LABORATORIES

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

No

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

No

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

No

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

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory	No. participating laboratories	Name of the Test	WOAHA Member Countries

	(organizer/participant)			
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	Diagnóstico rápido	SPAIN,
Determinar la aptitud de un laboratorio para efectuar pruebas de diagnóstico de la EEB (como parte del programa de acreditación de dicho laboratorio).	Participante	2	Histopatología e inmunohistoquímica	SPAIN,

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

Se ha iniciado el proceso requerido para el establecimiento de la de acreditación ISO17043 en nuestro laboratorio.