

WOAH Reference Laboratory Reports Activities 2025

This report has been submitted: 29 janvier 2026 13:07

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Scrapie
*Address of laboratory:	Centro de Encefalopatías y Enfermedades Transmisibles Emergentes. Universidad de Zaragoza. C/ Miguel Servet, 177 50013 Zaragoza SPAIN
*Tel:	+34-976 76 2944
*E-mail address:	mmonzon_ext@woah.org
Website:	http://centroeets.unizar.es/
*Name (including Title) of Head of Laboratory (Responsible Official):	Prof Marta Monzón Garcés
*Name (including Title and Position) of WOAH 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 WOAH Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
IDEXX herdCheck BSE antigen test kit, EIA ELISA	Yes	3234	0
Direct diagnostic tests			
Histopatología	Yes	8	0
Inmunohistoquímica	Yes	8	0

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?

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAH Members?

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 WOAHS 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 WOAHS Standards for the designated pathogen or disease?

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No
11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAHS Member?

Yes

Name of the WOAHS Member Country receiving a technical consultancy	Purpose	How the advice was provided
RUSSIA	Participar en un interlaboratorio para para la detección del agente del Scrapie.	En respuesta a la solicitud por parte del país, se ha puesto a disposición nuestro laboratorio para la organización del ensayo interlaboratorial para Scrapie tan pronto como sea posible.

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No
13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHS?

Yes

Research need : 1

Please type the Research need: La incentivación de colaboración internacional ayudaría a la elaboración / actualización de las normas

Relevance for WOAHS Facilitation of international collaboration,

Relevance for the Code or Manual

Field Diagnostics,

Animal Category Terrestrial,

Disease:
Prurigo lumbar

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:

4

Hernaiz A, Grasa L, De Diego Abejón P, León Huertas C, Marín B, Badiola JJ, Bolea R, Zaragoza P, Martín-Burriel I. Gut microbiota alterations linked to classical scrapie in sheep. *Res Vet Sci.* 2025 Nov;196:105916. doi: 10.1016/j.rvsc.2025.105916. Epub 2025 Sep 23. PMID: 41014860.

Marco Lorente PA, Zinkunegi M, Sola D, Larrañaga N, Marín B, Moreno B, Badiola JJ, Bolea R, Otero A. Detection of prions in oocytes and ovaries of ewes naturally infected with classical scrapie. *Vet Res.* 2025 Apr 10;56(1):79. doi: 10.1186/s13567-025-01512-0. PMID: 40211373; PMCID: PMC11984232.

Monzón M, Pérez JS, Hernández RS, Sarasa R, Garcés M, Luesma MJ, Badiola JJ. Changes of Microglial Cells in the Progression of Neurodegeneration in Natural Prion Disease. *Front Biosci (Landmark Ed).* 2025 Oct 31;30(10):47074. doi: 10.31083/FBL47074. PMID: 41198557.

Pérez-Lázaro S, Martín-Burriel I, Cozzuto L, Ponomarenko J, Badiola JJ, Bolea R, Toivonen JM. Dysregulated microRNAs in blood correlate with central nervous system neuropathology of prion disease. *Vet Res.* 2025 Jul 1;56(1):132. doi: 10.1186/s13567-025-01566-0. PMID: 40597437; PMCID: PMC12220440.

b) International conferences:

3

Larrañaga, N.; Gómez,J.; Roche J.; Borrego, S.; Sola, D.; Marín, B.; Marco, P.; Sevilla, E.; M.; Badiola, J.; Bolea, R.; and Otero, A. "Development of ovine - based in vitro models for prion diseases" Póster. 13th Iberian Congress on Prions, Oporto, Portugal. 22-23 de mayo del 2025.

Marco, P.; Zinkunegi, M.; Sola, D.; Larrañaga, N.; Marín, B.; Moreno, B.; Badiola, J.; Bolea, R.; Otero, A. "Tracing Prions in the Female Reproductive System: Oocytes and Ovaries in Scrapie - Affected Sheep" Póster. 13th Iberian Congress on Prions, Oporto, Portugal. 22-23 de mayo de 2025.

Montón, I.; Pérez, J.; Badiola, JJ; Monzón, M. "Lipid droplets in neurodegenerative diseases". Póster. XVII European Meeting on Glial Cells in Health and Disease, GLIA 2025. Marsella, Francia. 8 - 11 de Julio del 2025

c) National conferences:

2

Larrañaga, N.; Gómez, J.; Sola, D.; Marco, P.; Sevilla, E.; Badiola, J.; Otero, A. y Bolea, R. "Desarrollo de modelos in vitro basados en la especie ovina" Comunicación oral. XXI Jornadas sobre Producción Animal, Zaragoza, España. 3-4 de junio del 2025.

Larrañaga, N; Sola, D; García, R; Pascual M; Marco, P; Badiola, JJ; Bolea, R; Otero, A. "Evaluación de la neuropatología en un modelo murino de scrapie tratado con terapia génica". Póster. XXXVI Reunión de la SEAPV, León, España. 18-20 de junio del 2025.

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?

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	794_LE1663-1.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)
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, se cuenta desde Julio de 2023 con 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 WOAHP?

No

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

No

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

No

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

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP Reference Laboratories designated for the same pathogen during the past 2 years?

No

Pero como se ha señalado en el apartado TOR5, y en informes de anualidades anteriores, en nuestra opinión sería interesante y enriquecedor.

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAHP Member Countries
Comprobar la capacidad de los laboratorios participantes en diagnosticar muestras de Scrapie, 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 Scrapie (como			Histopatología	

Juan José Badiola Díez - - SPAIN

efectuar pruebas de diagnóstico de scrapie (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 WOAHP?

No

29. Additional comments regarding your report: