

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	African horse sickness
*Address of laboratory:	LCV Ctra M106, Km 1,4 28110, Algete, Madrid, España;
*Tel:	+34 913 47 83 12
*E-mail address:	maguerog@mapa.es
Website:	(LCV) https://www.mapa.gob.es/es/ganaderia/temas/laboratorios/referencia-union-europea-oie/
*Name (including Title) of Head of Laboratory (Responsible Official):	(LCV) Dr. Montserrat Agüero;
*Name (including Title and Position) of WOAH Reference Expert:	(LCV) Dr. Montserrat Agüero; (UCM)
*Which of the following defines your laboratory? Check all that apply:	Governmental

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)

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Yes

Diagnostic Test	Indicated in WOA H Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
(LCV) ELISA bloqueo	Yes	573	0
Direct diagnostic tests		Nationally	Internationally
(LCV) RRT-PCR Agüero et al; 2008 (VP7)	Yes	360	279
(LCV) RRT-PCR multiplex específicas de serotipo (VP2)	No	0	12
(LCV) Aislamiento viral	Yes	0	312

TOR2: REFERENCE MATERIAL

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

No

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

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOA H Member Countries	Country of recipients
(LCV)VPEA de los serotipos 4, 6 y 7 inactivados. Enviados en el ensayo de intercomparación organizado por el EU-RL	RT-PCR	20 ml/virus inactivado	600µl/muestra (10 muestras/participante)	600µl/muestra (10 muestras/participante)	36	AUSTRIA, BELGIUM, BULGARIA, CANADA, CZECH REPUBLIC, DENMARK, FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, INDIA, IRELAND, ITALY, LATVIA, LITHUANIA, MALAYSIA, MEXICO, MOROCCO, POLAND, PORTUGAL, ROMANIA, SAUDI ARABIA, SERBIA, SLOVAKIA, SLOVENIA, SOUTH

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						AFRICA, SPAIN, SWEDEN, SWITZERLAND, THAILAND, THE NETHERLANDS, TUNISIA, TURKEY, UNITED ARAB EMIRATES, UNITED KINGDOM,
(LCV) sueros equinos de animales vacunados frente al serotipo 4 del VPEA, de animales infectados naturalmente y experimentalmente y de caballos negativos enviados en el ensayo de intercomparación organizado por el EU-RL	ELISA	30 ml/suero	300µl/muestra (10 muestras/participante)	300µl/muestra (10 muestras/participante)	37	AUSTRIA, BELGIUM, BULGARIA, CANADA, CROATIA, CYPRUS, CZECH REPUBLIC, DENMARK, FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, INDIA, IRELAND, ITALY, LATVIA, LITHUANIA, MALTA, MEXICO, MOROCCO, POLAND, PORTUGAL, ROMANIA, SAUDI ARABIA, SERBIA, SLOVAKIA, SLOVENIA, SOUTH AFRICA, SPAIN, SWEDEN, SWITZERLAND, THAILAND, THE NETHERLANDS, TUNISIA, TURKEY, UNITED KINGDOM,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA Members?

No

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?

No

9. Did your laboratory validate vaccines according to WOAHS Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

Name of WOAHS Member Country seeking assistance	Date	Which diagnostic test used	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
NIGERIA	2024-02-10	Aislamiento viral	0	12

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

No

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?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

No

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:

1

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Villalba R, Tena-Tomás C, Ruano MJ, Valero-Lorenzo M, López-Herranz A, Cano-Gómez C, Agüero M. Development and Validation of Three Triplex Real-Time RT-PCR Assays for Typing African Horse Sickness Virus: Utility for Disease Control and Other Laboratory Applications. *Viruses*. 2024 Mar 20;16(3):470. doi: 10.3390/v16030470. PMID: 38543834; PMCID: PMC10974454.

b) International conferences:

1

AHS&BT EURL Annual meeting:

- C.Tena-Tomás: "EURL AHS activities 2024 and Work Program 2025-27"
- B.Diéguez: "AHSV sequencing by amplicons at the EURL"
- M.Agüero: "Update on the molecular detection of putative novel AHSV strains from RSA"

c) National conferences:

0

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

1

<https://www.mapa.gob.es/es/ganaderia/temas/laboratorios-sanidad-genetica/referencia-ue/>

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0

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
C	AUSTRIA	1
C	BELGIUM	1
C	CYPRUS	1
C	LATVIA	1
C	SWEDEN	1

TOR8: QUALITY ASSURANCE

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18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
(LCV) ISO17025	Anexo técnico acreditación 17025	Anexo Técnico Acreditación LCV_692_LE1530 Rev. 25 (13.09.24).pdf
(LCV) ISO14001	Certificado 14001	CertificadoGA-2002-0327_ES_2024-10-11.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Detección de anticuerpos frente al VPEA mediante ELISA en sueros de équidos	ENAC
Detección de orbivirus mediante cultivo celular (BTV, AHSV, EHDV) en muestras de sangre completa no coagulada, bazo, pulmón y nódulos linfáticos	ENAC
Detección-identificación del VPEA mediante RT-PCR a tiempo real en muestras de vísceras de animales, sangre y cultivos celulares	ENAC
Serotipificación de anticuerpos frente a Orbivirus por neutralización (BTV, AHSV,EHDV) en suero de rumiantes y équidos	ENAC
Tipificación del VPEA mediante RT-PCR a tiempo real en muestras de vísceras de animales, sangre y cultivos celulares	ENAC

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

Yes

En el LCV hay un responsable de bioseguridad y se dispone de procedimientos de trabajo por patógeno y técnica, elaborados conforme a la evaluación del riesgo realizada previamente.

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

Yes

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

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS
			Lab. Ref. OMSA organizador: LCV

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Peste equina africana	Organizador	3	(España) Lab. Ref. OMSA participantes: The Pirbright Institute (Reino Unido), LCV (España) y OVI-ARC (Sudáfrica)
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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
(LCV) Ensayo interlaboratorial para detección de anticuerpos frente al VPEA y detección de ácidos nucleicos del VPEA	Organizador	44	Lab. Ref. OMSA organizador: LCV (España) Lab. Ref. OMSA participantes: The Pirbright Institute (Reino Unido), LCV (España) y OVI-ARC (Sudáfrica)

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
Modificación de la real time RT-PCR descrita por Agüero et al; 2008	Diagnóstico y control de PEA	LCV (España) OVI-ARC (Sudáfrica) The Pirbright Institute (Reino Unido)

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?

No

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TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Revisión Capítulo de PEA del Manual de las Pruebas de Diagnóstico y de las Vacunas para los Animales Terrestres	No aplica	Revisión Capítulo de PEA del Manual de las Pruebas de Diagnóstico y de las Vacunas para los Animales Terrestres

29. Additional comments regarding your report:

Yes

Nuestros expertos consultores están siempre a disposición de la OMSA