

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 29 janvier 2025 11:58

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Equine infectious anaemia
*Address of laboratory:	Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana (IZSLT) Via Appia Nuova 1411, 00178 Rome
*Tel:	+390-6 79.09.93.53
*E-mail address:	teresa.scicluna@izslt.it
Website:	https://www.izslt.it/
*Name (including Title) of Head of Laboratory (Responsible Official):	Maria Teresa Scicluna - Head of the Virology Unit
*Name (including Title and Position) of WOA Reference Expert:	Maria Teresa Scicluna
*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)

Yes

Diagnostic Test	Indicated in WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA	Yes	17854	0
AGID	Yes	227	0
Immunoblot	Yes	155	0
Direct diagnostic tests		Nationally	Internationally

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PCR	Yes	55	0
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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 (nonWOAH-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
Positive sera for EIAV	ELISA	Produced and provided	0	51, 31, 30 and 20	3	BRAZIL, HUNGARY, UNITED KINGDOM,
Positive sera for EIAV	AGID	Produced and provided	100	12, 30, 31 and 20	5	BRAZIL, HUNGARY, ITALY, MOROCCO, UNITED KINGDOM,
EAIV p26 recombinant antigen	AGID	Produced and provided	33	3	2	ITALY, MOROCCO,
reagents for ELISA	ELISA	Produced and provided	30 ml of monoclonal antibody for adsorption 15 ml of monclonal antibody as tracer 12 ml of EAIV p26 recombinant antigen 100 ml of positive control 100 ml of negative contro	0	1	ITALY,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOA?H 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?

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
BRAZIL	Request of reference material for verification and validation of serological kits	email and conference call
CHILE	Request of advice on the use of commercial EIA pcrs	email and conference call
HUNGARY	Request for information on a diagnostic algorithm to increase sensitivity and specificity of surveillance programmes	email
MOROCCO	Request for information on a diagnostic algorithm to increase sensitivity and specificity of surveillance programmes	email and conference call

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: Genetic study of EIA field strains using whole genome sequencing for phylogenetic studies and for the evaluation of the development of a molecular diagnostic method.

Relevance for WOAHS Facilitation of international collaboration,

Relevance for the Code or Manual Manual,

Field Epidemiology and Surveillance, Diagnostics,

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Animal Category Terrestrial,

Disease:

Equine infectious anaemia

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: C H A P T E R 3 . 6 . 5 . E Q U I N E I N F E C T I O U S A N A E M I A

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:

The WOAHA Reference Laboratory, as National Reference Centre for EIAV, continues to collect data on surveillance activities and outbreaks using an online platform made available to the Italian Laboratory Network who every trimester upload the results of the tests conducted according to the National Surveillance Programme.

The data is elaborated and presented on the website <https://craie.izslt.it/craie/> with different level of access as following:

- a section accessible to the public to view the national epidemiological situation (CRAIE Web GIS) which at present is under review,
- a section accessible to the official authorities (CRAIE Web GIS), within which they can manage the outbreaks by downloading the list of premises that must be controlled, within a radius of 3 km from the outbreak and within 30 day from the declaration of outbreak, •

The whole system is also accessible to the National and Regional Veterinary to verify the activities carried out according to their competency.

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

Yes

If the answer is yes, please provide details of the data collected:

The data made available at the following website <https://craie.izslt.it/craie/> which at present is being reviewed and may not be accessible.

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

Andrea Carvelli, Roberto Nardini, Azzurra Carnio, Ida Ricci, Francesca Rosone, Marcello Sala, Sara Simeoni, Daniela Maccarone, Maria

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Teresa Scicluna, "Equine Infectious Anaemia: The Active Surveillance of an Entire Equid Population Reduces the Occurrence of the Infection", *Transboundary and Emerging Diseases*, vol. 2024, Article ID 3439871, 13 pages, 2024. <https://doi.org/10.1155/2024/3439871>
Cardeti G, Manna G, Cersini A, Nardini R, Rosati S, Reina R, Cittadini M, Sittinieri S, Altigeri A, Marcario GA, Scicluna MT. Horse Innate Immunity in the Control of Equine Infectious Anemia Virus Infection: A Preliminary Study. *Viruses*. 2024 Nov 21;16(12):1804. doi: 10.3390/v16121804.

b) International conferences:

1

<https://ieidc.org/>

c) National conferences:

2

"Aggiornamenti sull'anemia infettiva equina" 07/02/2024

"Giornata di studio "Il cavallo: benessere, salute e biosicurezza"" 24/10/2024

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

2

<https://craie.izslt.it/craie/>

<https://www.izs.it/equinotio/index.html>

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)	
ISO 17025	Accreditation certificate 00182 Testing REV. 07	NUOVO CERTIFICATO DI ACCREDITAMENTO ACCREDIA.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Elisa	Accredia
AGID	Accredia

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

Yes

Biorisk management system is described in the Biosecurity Manual of the IZSLT

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?

No

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
Interlaboratory trial for ELISA and AGID	Organiser	36 labs for ELISA and 13 labs for AGID	WOA Ref Lab China

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?

No

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

we did not organise or participate

TOR12: EXPERT CONSULTANTS

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

Yes

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Kind of consultancy	Location	Subject (facultative)
review of WOAHS Standards	Italy	EIAV chapter on WOAHS Manual
review of WOAHS Standards	Italy	EIAV chapter on WOAHS Code

29. Additional comments regarding your report:

No