OIE Reference Laboratory Reports Activities

Activities in 2021

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Bovine viral diarrhoea
Address of laboratory:	Animal and Plant Health Agency - Weybridge, Addlestone, Surrey KT15 3NB UNITED KINGDOM
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Fax:	
E-mail address:	rebecca.strong@apha.gov.uk
Website:	https://www.gov.uk/government/organisations/animal-and-plant-health-agency
Name (including Title) of Head of Laboratory (Responsible Official):	Mr Ian Hewitt, Chief Executive
Name (including Title and Position) of OIE Reference Expert:	Dr Rebecca Strong, OIE expert for BVD
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Antibody ELISA (serum) TC0390	Yes	4067	42
BVD antibodies in bulk milk TC0123	Yes	64	0
BVD antibodies in individual milk TC0633	Yes	0	0
Serum neutralisation (BD) TC0292	No	328	2
Serum neutralisation (BVD) TC1165	Yes	67	1
Serum neutralisation (differential) TC1254	No	4	0
Direct diagnostic tests		Nationally	Internationally
BVD virus isolation - semen TC0489	Yes	91	0
BVD virus isolation - tissues - 2 passages TC0564	Yes	0	0
Erns Antigen ELISA (BVD) TC0772	Yes	3757	7
PCR for Border disease in tissue or heparinised blood TC0755	No	1298	3
RT-PCR BVD (bulk milk) TC0709	Yes	281	0
RT-PCR BVD (whole blood or tissues) TC0655	Yes	1392	1
Border disease virus in pooled sera samples TC0358	Yes	28	0
BVD virus in blood RT-PCR TC0758	Yes	78	0
BVD Ag ELISA ear notch samples TC0872	Yes	8	0

ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
WB160 mAb	BVDV1/BDV detection	12	0	12	2	☐Africa ☐Americas ☒Asia and Pacific ☒Europe ☐Middle East
WB103/105 mAb	Pan pesti virus detection	54	1	53	10	☐Africa ☒Americas ☒Asia and Pacific ☒Europe ☐Middle East
WB162 mAb	BVDV1 detection	5	0	5	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
WB210 mAb	BVDV1 detection	16	0	16	4	☐Africa ☒Americas ☒Asia and Pacific ☒Europe ☐Middle East
WB215 mAb	BVDV1 detection	5	0	5	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
WS363 mAb	BDV detection	5	0	5	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East

WS433 mAb	BVDV2/BDV detection	2	0	2	2	☐Africa ☒Americas ☐Asia and Pacific ☒Europe ☐Middle East
BVDV mAb mix – WB103/ WB112/ WB116/ WB214	Pan pesti virus detection	2	0	2	2	☐Africa ☒Americas ☐Asia and Pacific ☒Europe ☐Middle East
WB112 mAb	BVDV detection	63	0	63	1	☐Africa ☒Americas ☐Asia and Pacific ☐Europe ☐Middle East
WB103 mAb	Pan pesti virus detection	11	0	11	2	☐Africa ☒Americas ☐Asia and Pacific ☒Europe ☐Middle East
WS105	Pan pesti virus detection	1	0	1	1	☐Africa ☒Americas ☐Asia and Pacific ☐Europe ☐Middle East

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
FRANCE	Advice on proficiency testing schemes	Email
EGYPT	Advice on proficiency testing schemes	Email
RUSSIA	Advice on the strains of BVDV to use for validation of diagnostic testing	Email
SPAIN	Advice on diagnostic testing PCR methods	Email

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

If the answer is no, please provide a brief explanation of the situation:
No data collected

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:
No data was processed and analysed.

13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)

a) Articles published in peer-reviewed journals: 0

b) International conferences: 0

c) National conferences: 0

d) Other:
(Provide website address or link to appropriate information) 0

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries
To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO/IEC 17025:2017	ISO17025 Certificate.pdf
ISO9001	ISO9001 certificate 2020-2023.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Bovine viral diarrhoea - virus isolation from semen	UKAS
Bovine viral diarrhoea (Erns) antigen - cattle > 30 days old	UKAS
Bovine viral diarrhoea (Erns) antigen ELISA for ear notch tissue samples	UKAS
Bovine viral diarrhoea antibodies in bulk milk	UKAS

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

Yes

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

No

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

No

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing see point 1.3

Purpose for inter-laboratory test comparisons[1]	No. participating laboratories	Region(s) of participating OIE Member Countries
BVDV Blood Ag/PCR PT0010	32	☒Africa ☒Americas ☒Asia and Pacific ☒Europe ☐Middle East
BVDV bulk milk PT0011	26	☐Africa ☒Americas ☒Asia and Pacific ☒Europe ☐Middle East
BVDV serum PT0012	35	☒Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
BVDV Ear tissue ELISA PT0148	17	☐Africa ☐Americas ☒Asia and Pacific ☒Europe ☐Middle East
BVDV in bulk milk PCR PT0160	10	☐Africa ☐Americas ☒Asia and Pacific ☒Europe ☐Middle East
BVDV Ear Tissue PCR PT0178	19	☒Africa ☐Americas ☒Asia and Pacific ☒Europe ☐Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
Attendance at BVDV experts meeting	Virtual	Contribution to OIE case definition for BVDV

25. Additional comments regarding your report: