

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 27 février 2025 15:20

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Bovine viral diarrhoea
*Address of laboratory:	P.O. Box 640 Township Road 9-1 Lethbridge, Alberta T1J 3Z4 CANADA
*Tel:	+1-403 382 55 00
*E-mail address:	oliver.lung@inspection.gc.ca
Website:	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Kingsley Amoako, Director, Canadian Food Inspection Agency, National Centres for Animal Disease, Lethbridge Laboratory
*Name (including Title and Position) of WOAH Reference Expert:	Dr. Oliver Lung, Research Scientist/Head, Genomics Unit, Canadian Food Inspection Agency, National Centre for Foreign Animal Disease
*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 WOAH Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
BVD-Immuno-peroxidase	Yes	3205	0
BVD-Serum Neutralization	Yes	4024	0
Direct diagnostic tests			
BVD-Virus Isolation	Yes	349	0

TOR2: REFERENCE MATERIAL

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

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA 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 Member Countries	Country of recipients
BVDV mAb pool against Type 1 and 2	BVD-immuno-peroxidase	produced and provided	1 ml	0	1	CANADA,
BVD Singer strain	BVD-serum neutralization/ BVD-virus isolation	produced	330 ml	0	1	CANADA,

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?

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
whole-genome sequencing method	unpublished

7. Did your laboratory validate diagnostic methods according to WOA 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 WOA Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOA Member Country receiving a technical	Purpose
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consultancy		How the advice was provided
UNITED KINGDOM	request for information regarding Border Disease antisera reagents	email
AUSTRALIA	request for BVD mAb	email
EGYPT	request for BVD antisera	email

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

No

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:

passive surveillance

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:

passive surveillance data

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:

0

b) International conferences:

0

c) National conferences:

0

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

1

annual reporting to the Canadian Food Inspection Agency

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA H 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 17025:2017	2023.09.29_ASB_CTF_15366-CFIA-Certificate_v4.pdf	2023.09.29 ASB_CTF_15366-CFIA-Certificate_v4.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
BVD-serum neutralization; BVD-immuno-peroxidase; BVD-virus isolation	Standards Council of Canada

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

Yes

The laboratory has a high level of security with multiple points of controlled access. All laboratory work is conducted in Class 2 biological safety cabinets and biological waste is autoclaved. All staff are trained in the safe handling of infectious material.

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOA H REFERENCE LABORATORIES

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

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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
Network/BVD	Participant	4	Australia, UK, Canada, Germany

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?

No

No

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 acquired proficiency tests from other labs that was not part of a planned inter-laboratory proficiency test

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
Response to technical queries	Canada	Editing of BVD chapter of Terrestrial Manual

29. Additional comments regarding your report:

Yes

In addition to providing technical expertise to queries from Canada and abroad, we provide substantial genomics and bioinformatics support to 1) other WOA reference laboratories for avian influenza, African swine fever, classical swine fever, foot-and-mouth disease in Canada and 2) for ongoing HPAI outbreaks in Canada and associated surveillance activities due to the scale of the ongoing HPAI outbreaks in North America.