OIE Reference Laboratory Reports Activities

Activities in 2019

This report has been submitted : 2020-01-23 18:05:17

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Bluetongue
Address of laboratory:	USDA, APHIS, VS, DB National Veterinary Services Laboratories 1920 Dayton Avenue, P.O. Box 844 Ames, Iowa 50010 UNITED STATES OF AMERICA
Tel.:	+1-515 337 7551
Fax:	+1-515 337 6508
E-mail address:	NVSL.DVL.Heads@usda.gov
Website:	www.aphis.usda.gov/nvsl
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Karl Hochstein, Acting Director, National Veterinary Services Laboratories, DB, VS, APHIS, USDA
Name (including Title and Position) of OIE Reference Expert:	TBD, Diagnostic Virology Laboratory, National Veterinary Services Laboratories, DB, VS, APHIS, USDA
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
Agar Gel Immunodiffusion (AGID)	yes	119	0
Competitive Enzyme-Linked Immunosorbent Assay (C-ELISA)/Enzyme-Linked Immunosorbent Assay (ELISA)	yes	396	125
Virus Neutralization	yes	245	0
Direct diagnostic tests		Nationally	Internationally
Virus Isolation	yes	358	0
Real-time reverse transcriptase-polymerase chain reaction (rRT-PCR)	yes	363	6
Polymerase Chain Reaction (PCR)	yes	0	0
Sheep Inoculation	yes	373	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?

Yes

NOTE: Currently, there are 22 laboratories that produce Standard Reference Reagents officially recognised by the OIE for 19 diseases/pathogens. Please click the following link to the list of OIE-approved International Standard Sera: http://www.oie.int/en/our-scientific-expertise/veterinary-products/reference-reagents/. If the reagent is not listed on this page, it is NOT considered OIE-approved. The next two questions allow you to indicate non-OIE-approved diagnostic

reagents.

OIE-approved SRR producing laboratory – Select your lab from list:

Disease	Test	Available from
Bluetongue	Enzyme-linked immunosorbent assay; Agar gel immunodiffusion	Dr Eileen N. Ostlund National Veterinary Services Laboratories, Animal & Plant Health Inspection Service, USDA, P.O. Box 844, 1920 Dayton Avenue, Ames, Iowa 50010, United States of America Tel: (1-515) 337.75.51 Fax: (1-515) 337.73.48 eileen.n.ostlund@aphis.usda.gov

Type of reagent available	Related diagnostic test	Produced/ Supply imported	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient OIE Member Countries
BT antisera	ELISA/AGID	both	○<10mL ○10-100mL ◉100-500mL ○>500mL	○<10mL ◉10-100mL ○100-500mL ○>500mL	JAPAN

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
Bluetongue (BT) viruses 2, 10, 11, 13, 17	VN	both	1.8 ml	0 ml	0	☐Africa ☐Americas ☐Asia and Pacific ☐Europe ☐Middle East
BT antibodies- 2, 10, 11, 13, 17	VN	both	4.6 ml	0 ml	0	☐Africa ☐Americas ☐Asia and Pacific ☐Europe ☐Middle East
BT weak positive	ELISA/AGID	both	66 ml	0 ml	0	☐Africa ☐Americas ☐Asia and Pacific ☐Europe ☐Middle East
BT strong positive	ELISA/AGID	both	28 ml	10 ml	1	☐Africa ☐Americas ☒Asia and Pacific ☐Europe ☐Middle East
BT conjugate	FA	both	9 ml	0 ml	0	☐Africa ☐Americas ☐Asia and Pacific ☐Europe ☐Middle East
BT Proficiency Panel	ELISA/AGID	both	54 Panels	1 panel	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?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
ARGENTINA	November	1	0
CANADA	February, May, August, October	18	0
GERMANY	July	5	0
UNITED KINGDOM	October	1	0

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

No

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:
USDA has a separate group that is responsible for this type of analysis and distribution of data.

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:
USDA has a separate group that is responsible for this type of analysis and distribution of data.

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: 3

b) International conferences: 4

c) National conferences: 1
1. October 21-25, 2019: United States Animal Health Association Annual Meeting, Providence, RI

d) Other:
(Provide website address or link to appropriate information) 2
1. United States Animal Health Association: Committee on Parasitic and Vector Borne Diseases
https://www.usaha.org/upload/Committee/2019Reports/Parasitic_and_Vector_Borne_Disea.pdf

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 17025 Biological Testing	2019 A2LA Accreditation Certification.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Virus Neutralization	American Association for Laboratory Accreditation (A2LA)
RT-PCR	A2LA
PCR	A2LA
AGID	A2LA
ELISA	A2LA
Virus Isolation	A2LA

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
Annual proficiency test for export purposes	54	☐Africa ☒Americas ☐Asia and Pacific ☐Europe ☐Middle East
Proficiency test for Quality Assurance	1	☐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?

No

25. Additional comments regarding your report:

• Due to recent changes in staff, we are in the application process for the next subject matter expert