OIE Reference Laboratory Reports Activities

Activities in 2018

This report has been submitted : 2019-01-17 12:47:09

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Infectious bovine rhinotracheitis/infectious pustular vulvovaginitis
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Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Dr. Martin Beer deputy head of the laboratory: Dr. Patricia König (patricia.koenig@fli.de)
Name (including Title and Position) of OIE Reference Expert:	Prof. Dr. Martin Beer
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
BoHV-1 whole virus ELISA	yes	107	0
BoHV-1 gB blocking ELISA	yes	785	0
BoHV-1 gE blocking ELISA	yes	886	0
BoHV-1 bulk milk ELISA	yes	102	0
BoHV-2 whole virus ELISA	no	49	0
Bo/BuHV-1 differentiating ELISA	no	59	0
serum neutralisation test	yes	41	0
Direct diagnostic tests		Nationally	Internationally
virus isolation in cell culture		725	28
IFA		5	0
PCR		828	28

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
milk samples	bulk milk antibody ELISA	10/30	22x1ml	65x1ml	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
serum samples	antibody ELISA,SNT	0/50	40x1ml	69x1ml	3	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
DNA	PCR	0/15	4	1	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
virus stocks	virus isolation,IFA, SNT, PCR	0/10	0	4	3	☐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?

Yes

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

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
Detection of BHV-1 antibodies in meat juice samples of beef cattle; further validation in progress	nationally published: Lab-Loeffler, 2/2017 No 15 https://www.openagrar.de/servlets/MCRFileNodeServlet/openagrar_derivate_00008231/LabLOEFFLER_15_2017_Web.pdf

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
UNITED KINGDOM	March	24	0
FRANCE	November	2	0

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
ITALY	Herpesvirus latency	email
BELARUS	Virus detection in semen	email
BELGIUM	Milk testing and concentration of milk samples	email
AUSTRALIA	BHV-1 detection in semen	email
CANADA	test validation	phone / email
SPAIN	test development	interlaboratory testing
SERBIA	Organisation of ring trial	email and material tranfer
AUSTRIA	BHV-1 detection in semen	email
FINLAND	Virus isolation in cell culture	email and material tranfer

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?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
Detection of gE antibodies in bulk milk samples	2017-2019	Validation of a reliable test system for the detection of gE antbodies in concentrated bulk milk samples	TGD e. V. Poing, Germany In3Diagnostic,Italy	GERMANY ITALY

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?

Yes

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

Yes

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: 4

b) International conferences: 3

c) National conferences: 1
37. Jahrestagung der DVG-FG "AVID" - Virologie 12.09.2018 - 14.09.2018

d) Other:
(Provide website address or link to appropriate information) 2
www.fli.de
Tiergesundheitsjahresbericht 2017/Hrsg: Friedrich-Loeffler-Institut; Federal Research Institute for Animal Health

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 certified according to an International Standard?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO 17025	AKS_Eintrag_2007.pdf

16. Is your laboratory accredited by an international accreditation body?

Yes

Test for which your laboratory is accredited	Accreditation body
flexible accreditation: SNT, ELISA (marker and conventional) on serum, plasma and milk	ILAC MRA
flexible accreditation: VI, IFA, PCR, nucleic acid extraction	ILAC MRA
flexible accreditation: RFLP	ILAC MRA

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?

Yes

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
test Validation: gB blocking ELISA	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
test Validation: milk testing	2	☐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)
European Expert Group to discuss Delegated Acts on IBR:Supporting documents to discuss a delegated act on surveillance, eradication programmes and disease free status for terrestrial animals - AHL, Brussels	email and phone	harmonisation and standardisation of definitions, diagnostic methods and schemes within the European Union in accordance to OIE standards

25. Additional comments regarding your report:

The OIE laboratory is in charge with test licensing and batch release in Germany (40 batches in 2018).