

# OIE Reference Laboratory Reports Activities

## *Activities in 2017*

**This report has been submitted : 2018-01-12 18:47:39**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Infectious bovine rhinotracheitis/infectious pustular vulvovaginitis
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Prof. Dr. Martin Beer deputy head of laboratory: Dr. Patricia König; patricia.koenig@fli.de
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Prof. Dr. Martin Beer
<b>Which of the following defines your laboratory? Check all that apply:</b>	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	1839	8
BoHV-1 gB blocking ELISA	yes	2632	12
BoHV-1 gE blocking ELISA	yes	5764	16
BHV-1 bulk milk ELISA	yes	120	0
BHV-2 whole virus ELISA	no	88	4
Bo/BuHV-1 differentiating ELISA	no	51	0
inhouse and other ELISA	no	12	16
serum neutralisation assay	yes	10	24
Direct diagnostic tests		Nationally	Internationally
virus isolation in cell culture	yes	977	16
IFA	yes	10	0
PCR	yes	1056	24

**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
serum	ELISA SNT	0/75	82x1ml	116x1ml	9	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
milk	ELISA	10/30	25X1ml	75X1ml	3	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
virus	vi, IFA, PCR	0/20	7x1ml	10x1ml	5	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
DNA	PCR	0/15	0	0	0	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> 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.)
BHV-1 and BHV-1 gE meat juice ELISA diagnostics; Validation ongoing	nationally published: Lab-Loeffler, 2/2017 No 15 <a href="https://www.openagrar.de/servlets/MCRFileNodeServlet/openagrar_derivate_00008231/LabLOEFFLER_15_2017_Web.pdf">https://www.openagrar.de/servlets/MCRFileNodeServlet/openagrar_derivate_00008231/LabLOEFFLER_15_2017_Web.pdf</a>

**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
SWEDEN	February	11	11
FRANCE	March	4	4
UNITED KINGDOM	April	5	5
BELGIUM	October	4	4

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
NEW CALEDONIA	PCR performance and validation	email and supply of reference material
CANADA	Virus Isolation and PCR ELISA performance	email phone call
ITALY	sample preparation and stabilisation (lyophilisation)	email
FRANCE	marker ELISA Performance and test validation	email and supply of reference material
SERBIA	crossreactivity of bovine herpesviruses	email and supply of reference material
BELGIUM	marker ELISA bulk milk testing /herd surveil	email audioconference
SWITZERLAND	bulk milk test performance	email, audioconference, meeting
SPAIN	PCR performance and validation	email
ITALY	bulk milk testing: marker assay	email, audioconference

***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?

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: 2

International Symposium on bovine epizootics and animal welfare, 10.-12. May 2017 Stendal, Germany:  
Successful eradication of BHV-1 and BVDV in Germany - what next? M. Beer  
BHV-1 update from the National Reference Laboratory; P. König

c) National conferences: 3

6. Riemser Diagnostiktage, 29.11.-01.12.2017 Greifswald

National Conference of Official Veterinarians, April 2017:  
BHV-1 free Status - biosecurity versus pitfalls

d) Other:

(Provide website address or link to appropriate information) 1

www. fli.de

Tiergesundheitsjahresbericht 2016/ 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)
ISO17025	D-PL-14002-02-00_DAKkS_Symbol_ILAC_RGB_2.1_2015.jpg

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

Yes

Test for which your laboratory is accredited	Accreditation body
flexible accreditation: ELISA, SNT	DAKks /ILAC MRA
flexible accreditation: vi, IFA, PCR, nucleic acid extraction	DAKks /ILAC MRA
RFLP	DAKks /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?

Yes

Purpose of the proficiency tests: <sup>1</sup>	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
international test comparison and comparison of lab performances: BHV-1 serology BHV-1 milk serology	organiser	2 OIE/ 50 other labs	UK

<sup>1</sup> validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

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 <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
participants from 13 countries international test comparison and comparison of lab Performance: BHV-1 serology BHV-1 milk serology	52	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> 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)
Review	remote	update of the Terrestrial Manual

25. Additional comments regarding your report: