

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-02-11 16:32:37

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus, B. melitensis, B. suis)
Address of laboratory:	National Reference Laboratory for Animal Brucellosis (NRLAB) Department of Diagnostic Technology China Institute of Veterinary Drug Control (IVDC) No.8 Zhongguancun South Street Haidian District Beijing 100081 CHINA (PEOPLES REP. OF)
Tel.:	+86-10 61.25.53.27
Fax:	
E-mail address:	dingjiabo@126.com
Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Jiabo Ding
Name (including Title and Position) of OIE Reference Expert:	Jiabo Ding
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	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
ROSE BEGAL TEST	YES	5326	0
CFT	YES	311	0
C-ELISA	YES	6872	0
I-ELISA	YES	3544	0
FPA	YES	616	0
Direct diagnostic tests		Nationally	Internationally
Real-time qPCR	YES	658	0
Identification	YES	58	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?

No

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	Guidance on the use of diagnostic reagents	remote assistance

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
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	US Department of Agriculture, APHIS	UNITED STATES OF AMERICA
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	National Institute of Animal Health (NIAH), Department of Livestock Development (DLD)	THAILAND
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	Kimron Veterinary Institute Department of Bacteriology, Israel	ISRAEL
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	French Agency for Food, Environmental & Occupational Health Safety (ANSES)	FRANCE
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	Veterinary Diagnostic Directorate of the National Food Chain Safety Office, Hungary	HUNGARY
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	US Central Michigan University, College of Medicine	UNITED STATES OF AMERICA
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	University of Tromsø - the Arctic University of Norway	NORWAY
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	Institute of Bacterial Infections and Zoonoses, Friedrich-Loeffler Institute	GERMANY
The second international symposium on brucellosis	2 years	Academic Exchange for brucellosis	Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise (IZSAM), Italy	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?

No

If the answer is no, please provide a brief explanation of the situation:
Relevant data are not publicly released

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:
Relevant data are not publicly released

**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

Sun M, Liu M, Zhang X, et al. First Identification of a Brucella abortus biovar 4 Strain from Yak in Tibet, China[J]. Vet Microb, 2020, 247:108751.

Jiang H, O'Callaghan D, Ding JB. Brucellosis in China: history, progress and challenge. Infect Dis Poverty. 2020 May 24;9(1):55.

Peng X, Liu Y, Qin Y, Jiang H, Feng Y, Sun J, Niu K, Gao Q, Dong H, Ding J. Comparative Transcriptome Analysis of Artificially Induced Rough-Mutant Brucella Strain RM57 and Its Parent Strain Brucella melitensis M1981. Front Vet Sci. 2020 Jan 10;6:459.

Liu Y, Sun J, Peng X, Dong H, Qin Y, Shen Q, Jiang H, Xu G, Feng Y, Sun S, Ding J, Chen R. Deletion of the LuxR-type regulator VjbR in Brucella canis affects expression of type IV secretion system and bacterial virulence, and the mutant strain confers protection against Brucella canis challenge in mice. Microb Pathog. 2020 Feb;139:103865.

b) International conferences: 1

The second international symposium on brucellosis

c) National conferences: 1

The 4st training course of brucellosis diagnosis technology

d) Other:

(Provide website address or link to appropriate information) 1

<https://wx.vzan.com/live/LiveIntroduce-1032801015>

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)
ISO17025	□□□□□□2017□.jpg

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
RBT	CNAS
C-ELISA	CNAS
I-ELISA	CNAS
Identification	CNAS

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: ¹	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
rose begal test	participant	/	OIE Reference Laboratories of Thailand

¹ 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 ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Rose Bengal Test	/	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input 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)
Provision of comments on OIE Standards	China	Comments to Chapter 3.01.04 OIE Terrestrial Manual

25. Additional comments regarding your report: