

# OIE Reference Laboratory Reports Activities

## *Activities in 2021*

**This report has been submitted : 2022-01-30 12:40:20**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Brucellosis (Brucella abortus, B. melitensis, B. suis)
<b>Address of laboratory:</b>	National Reference Laboratory for Animal Brucellosis (NRLAB) Department of Diagnostic Technology China Institute of Veterinary Drug Control (IVDC) No.33 Qingfeng Road Daxing District Beijing 102600 CHINA (PEOPLES REP. OF)
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Jiabo Ding □director□
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Junping Li, Yuming Qin, Xuezheng Fan, Qingchun Shen, Hui Jiang, Xiaowei Peng, Guanlong Xu, Yu Feng, Jihui Jin, Yinghui Zhang, Xiaoqian Zhang
<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	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
iELISA	Yes	18558	0
cELISA	Yes	423	0
qPCR	Yes	268	0
Direct diagnostic tests		Nationally	Internationally

**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
brucellosis positive standard serum	ELISA/FPA/Colloidal Gold Strip/RBPT/SAT/CFT	Produced	2000ml	2ml	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Bruce antibody Test strip	antibody Test strip	provide	120000 dose	384dose	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
bovine brucellosis antibody indirect ELISA kit	indirect ELISA	provide	110000 dose	384dose	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Ovis brucellosis antibody indirect ELISA kit	indirect ELISA	provide	9000 dose	384dose	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Brucella Fluorescence Polarisation Assay Kit	Fluorescence Polarisation Assay	provide	110000 dose	500dose	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americ as <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

Animal Brucella competitive ELISA kit	Competitive ELISA	provide	500000 [dose]	384[dose]	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
bovine brucellosis antibody indirect ELISA kit	indirect ELISA	provide	110000 [dose]	384[dose]	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Animal Brucella competitive ELISA kit	Competitive ELISA	provide	500000 [dose]	384[dose]	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" 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?

No

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

Yes

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
Brucella rough attenuated live vaccine	Unpublished

**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
PAKISTAN	carry out the research on Brucellosis in Pakistan	Provide diagnostic reagents and protocol
FRANCE	Serological evaluation of vaccinated cattle	Provide diagnostic reagents and positive standard serum
RUSSIA	Vaccine evaluation	Develop vaccine evaluation plan
MONGOLIA	Improve the diagnostic technology of brucellosis in Mongolia	Provide technical guidance for brucellosis diagnosis

**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
Serological evaluation of vaccinated cattle	2021	The diagnostic reagents from China and Europe-France were used for serological detection of cattle immunized with S19 vaccine	EU Reference Lab. for Brucellosis National & OIE/FAO Animal Brucellosis Reference Lab. Bacterial Zoonoses Unit - Animal Health Laboratory French Agency for Food, Environmental & Occupational Health Safety (ANSES)	FRANCE

***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:

No invitation has been received to participate in such projects

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:

OIE did not publish the epidemiological data of brucellosis in 2021

**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: 9

b) International conferences: 3

c) National conferences: 20

d) Other:  
(Provide website address or link to appropriate information) 1

**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?

Yes

- a) Technical visits: 0
- b) Seminars: 4
- c) Hands-on training courses: 0
- d) Internships (>1 month): 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
b	Pakistan	25
b	Mongolia	10
b	Russia	5
b	New Zealand	10

**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/IEC 17025	□□□□□□.jpg

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
RBPT	China National Accreditation Service for Conformity Assessment
CFT	China National Accreditation Service for Conformity Assessment
bovine brucellosis indirect ELISA	China National Accreditation Service for Conformity Assessment
isolation and identification	China National Accreditation Service for Conformity Assessment
SAT	China National Accreditation Service for Conformity Assessment
animal brucellosis competitive ELISA	China National Accreditation Service for Conformity Assessment

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?

Yes

Title of the project or contract	Scope	Name(s) of relevant OIE Reference Laboratories
Serological evaluation of vaccinated cattle	Evaluation of vaccines and diagnostic reagents	EU Reference Lab. for Brucellosis National & OIE/FAO Animal Brucellosis Reference Lab. Bacterial Zoonoses Unit - Animal Health Laboratory French Agency for Food, Environmental & Occupational Health Safety (ANSES)

**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?

No

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

**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: