

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-09 12:57:59

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus)
Address of laboratory:	177, Hyeoksin 8-ro, Gimcheon-si, Gyeongsangbuk-do, 39660 KOREA (REP. OF)
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Name (including Title) of Head of Laboratory (Responsible Official):	Bong-Kyun Park Commissioner, APQA
Name (including Title and Position) of OIE Reference Expert:	Jin-Ju Lee Researcher, APQA
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			
RBT	Yes	1665	0
SAT	Yes	253	0
ELISA	Yes	331	0
FPA	Yes	331	0
Rapid slide agglutination test(RSAT) for B.canis	No	1509	0
Immunochromatography test for B.canis	No	1509	0
Direct diagnostic tests			
Bacterial culture	Yes	206	0
PCR	Yes	206	0
MLVA	No	159	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
JORDAN	To obtain opinion about brucella vaccine tests	by e-mail

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

If the answer is yes, please provide details of the data collected:
MLVA16 genotype data of Brucella abortus and Brucella canis

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

Yes

If the answer is yes, please provide details of the data collected:
International and national research conference and seminar

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: 0

b) International conferences: 4

1. Jin Ju Lee, Min-Kyeong Kim, Han Hye Ju, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2020). Molecular epidemiological analysis of bovine brucellosis in South Korea with importance on control strategies. (2020 International Union of Microbiological Societies)
2. Jin Ju Lee, Eun-Ji Yum Min-Kyeong Kim, Han Hye Ju, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2020). Discovery of new SNPs from draft WGS of domestic Brucella abortus strains for phylogenetic analysis. (2020 International Union of Microbiological Societies)
3. Jin Ju Lee, Min-Kyeong Kim, Han Hye Ju, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2020). Development of Indirect ELISA for Canine Brucellosis Using Combined Recombinant Proteins of Brucella canis. (2020 International Union of Microbiological Societies)
4. Min-Kyeong Kim, Eun Ji Yum, Hye Ju Han, Yu Sin Ok, So-Ra Sung, Min Hoe Lee, Soon Seek Yoon, Jin Ju Lee, Jeong Soo Choi (2020). SNP-based genetic analysis for Brucella canis isolated in Korea. (2020 International Union of Microbiological Societies)

c) National conferences: 0

d) Other:

(Provide website address or link to appropriate information) 0

**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/IEC 17025	KOLAS ISOIEC17025_2020.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
MRT, RBT, SAT, ELISA, PCR, Bacterial culture, Biochemical identification, Immunochromatography test, Rapid slide agglutination test	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?

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?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
To maintain the proficiency of testing for bovine brucellosis	participant	5	Participating OIE Ref. Labs

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?

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: