

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-13 10:31:00

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus)
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Name (including Title) of Head of Laboratory (Responsible Official):	Bong-Kyun Park
Name (including Title and Position) of OIE Reference Expert:	Jin-Ju Lee
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	1868	0
SAT	Yes	267	0
ELISA	Yes	652	0
FPA	Yes	283	0
Rapid slide agglutination test(RSAT) for B.canis	No	342	0
Immunochromatography test(Dip-stick) for B.canis	No	342	0
Direct diagnostic tests			
Bacterial culture	Yes	302	0
PCR	Yes	302	0
MLVA	No	90	0
MLSA	No	90	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?

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
SAT antigen	SAT	Produced	3,960 ml	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
indirect ELISA kit	i-ELISA	provide	9,120 tests	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
PCR test kit(Multiplex PCR)	PCR	Produced	3,000 tests	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
RSAT antigen	RSAT	Produced	240 ml	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?

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?

No

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:
MLVA 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:
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: 0

c) National conferences: 5

1. Jin Ju Lee, Han Hye Ju, Seong Yeob Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2021). Phylogenetic analysis of *Brucella abortus* strains using MLSA for molecular epidemiological relations (2021 Spring meeting, Korean Society of Veterinary Science).

2. Jin Ju Lee, Han Hye Ju, Seong Yeob Kim, Min-Hoe Lee, Yoon-Jeong Seo, Jeong-Soo Choi, Soon-Seek Yoon (2021). Genetic correlation between *Brucella abortus* strains isolated from specific regions in South Korea (2021 Autumn meeting, Korean Society of Veterinary Science).

3. Han Hye Ju, Jin Ju Lee, Jeong-Soo Choi, Seong Yeob Kim, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2021). Validation of indirect ELISA using recombinant protein of *Brucella canis* for serodiagnosis (2021 Autumn meeting, Korean Society of Veterinary Science).

4. Han Hye Ju, Jin Ju Lee, Jeong-Soo Choi, Seong Yeob Kim, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2021). Genetic characteristics and relatedness of *Brucella canis* isolated in South Korea (2021 Autumn meeting, Korean Society of Veterinary Science).

5. Jin Ju Lee, Jong Ho Kim, Han Hye Ju, Seong Yeob Kim, Min-Hoe Lee, Yoon-Jeong Seo, Jeong-Soo Choi, Soon-Seek Yoon (2021). Comparison of bacterial isolation and histopathological characterization in *Brucella canis*-infected dogs (2021 Korean Society of Veterinary Pathology).

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?

Yes

a) Technical visits: 0

b) Seminars: 35

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	Kazakhstan	5
b	SriLanka	1
b	Philippine	3
b	Malaysia	9
b	Vietnam	9
b	Indonesia	8

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
RBT	ilac-MRA
SAT	ilac-MRA
ELISA	ilac-MRA
MRT	ilac-MRA
Bacterial culture	ilac-MRA
PCR	ilac-MRA
Biochemical identification	ilac-MRA
Immunochromatography test	ilac-MRA
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?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
EU workshop for <i>B. canis</i> in Europe(COHESIVE/IDEMBRUGroup)	05/2021	Online (South Korea)	short communications	Gaps and challenges in controlling the spread
The 3rd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific	07/2021	Online (South Korea)	short communications	Progress and Challenges in Brucellosis Control in the Asia Pacific Region

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?

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?

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?

Yes

Kind of consultancy	Location	Subject (facultative)
review of OIE Standards(chapter 3.1.4.)	Oline (South Korea)	OIE Terrestrial Manual OIE Terrestrial Manual of Standards for Diagnostics Tests and Vaccines_chapter on Brucellosis(3.1.4.)

25. Additional comments regarding your report: