

OIE Reference Laboratory Reports Activities

Activities in 2019

This report has been submitted : 2020-01-15 10:50:58

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
Name (including Title and Position) of OIE Reference Expert:	Moon Her
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
RBT	Yes	1370	0
SAT	Yes	199	0
ELISA	Yes	199	0
FPA	Yes	199	0
Immunochromatography test	No	913	0
Direct diagnostic tests		Nationally	Internationally
PCR	Yes	39	0
Bacterial culture	Yes	39	0
MLVA	No	402	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
TURKEY	To obtain the technique for design LAMP PCR primer of brucellosis	by e-mail
ECUADOR	To obtain opinion about an appropriate diagnosis and confirmation of brucellosis in cattle	by e-mail
KENYA	To obtain advice about Brucella genotyping	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:
interanational or 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: 2

1. Min-Kyeong Kim, Hye-Jeong Kang, Su Gwon Roh, Jo Sun Park, Seung Bum Kim (2019). Streptomyces fodineus sp. nov., an actinobacterium with antifungal activity isolated from mine area soil. IJSEM, 69:1350-1354.
2. Eun Ji Yum, Jin Ju Lee, Min-Kyeong Kim, Eun Ji Park, So-Ra Sung, Min Hoe Lee, Soon-Seek Yoon, Moon Her, Jeong-Soo Choi, Molecular epidemiological study on a human patient of Brucella melitensis infection occurred in Korea. J Prev Vet Med, 4:181-185.

b) International conferences: 9

1. Jin Ju Lee, Eun-Ji Park, Eun-Ji Yum, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Validation of ELISA using Brucella canis-Specific Antigen for Canine Brucellosis. (2019 Annual Brucellosis Conference)
2. Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Comparison of Serological Tests for Bovine Brucellosis in South Korea in Situation of Maintaining a Low Prevalence. (2019 Annual Brucellosis Conference)
3. Eun-Ji Yum, Jin Ju Lee, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon

(2019). Analysis of Genetic Correlation Between Domestic and Foreign Brucella abortus Strains using MLST Assay. (2019 Annual Brucellosis Conference)

4. Min-Kyeong Kim, Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Molecular Epidemiological Analysis of Brucella canis Strains Circulating in Dogs in South Korea. (2019 Annual Brucellosis Conference)

5. Eun-Ji Park, Jin Ju Lee, Eun-Ji Yum, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Production of Combined Recombinant Protein of Brucella canis for Serodiagnosis of Canine Brucellosis. (2019 Annual Brucellosis Conference)

6. Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Etiology of bovine brucellosis in Korea with emphasis on control strategies. (2019 CRWAD)

7. Eun-Ji Yum, Jin Ju Lee, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Phylogenetic characterization of Brucella abortus strains isolated from Korea using MLSA. (2019 CRWAD)

8. Min-Kyeong Kim, Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Analysis of genetic characteristics and relatedness of Brucella canis isolates from Korea using MLST assay. (2019 CRWAD)

9. Eun-Ji Park, Jin Ju Lee, Eun-Ji Yum, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Evaluation of ELISA using combined recombinant proteins of Brucella canis for canine brucellosis. (2019 CRWAD)

c) National conferences: 3

1. Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). MLVA Genotyping of Brucella abortus isolated from cattle in Korea (2019 Spring meeting, Korean Society of Preventive Veterinary Medicine).

2. Jin Ju Lee, Eun-Ji Park, Eun-Ji Yum, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). New development of ELISA using Brucella canis BP26 for detection of canine brucellosis (2019 Spring meeting, Korean Society of Veterinary Science).

3. Jin Ju Lee, Eun-Ji Yum, Eun-Ji Park, Min-Kyeong Kim, So-Ra Sung, Min-Hoe Lee, Jeong-Soo Choi, Soon-Seek Yoon (2019). Monitoring of bovine brucellosis in Korea with importance on control strategies (2019 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: 8

c) Hands-on training courses: 8

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, c	Kazakhstan	2
b, c	Mongolia	2
b, c	Philippine	2
b, c	Malaysia	2

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 ISOIEC 17025_2019.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
MRT, RBT, SAT, ELISA, FPA, PCR and Bacterial culture	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?

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?

No

25. Additional comments regarding your report:

