

OIE Reference Laboratory Reports Activities

Activities in 2019

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Brucellosis (Brucella abortus, B. melitensis)
Address of laboratory:	National Institute of Animal Health, Department of Livestock Development(DLD) 50/2 Moo 3, Phahonyothin Road (Kasetklang), Ladyao, Chatuchak, Bangkok 10900 THAILAND
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E-mail address:	monayae@dld.go.th
Website:	niah.dld.go.th
Name (including Title) of Head of Laboratory (Responsible Official):	Mr.Banjong Jongrakwattana , Director of the National Institute of Animal Health, DLD Miss Reka Kanitpun, Chief of Immunology Section (Brucellosis Laboratory)
Name (including Title and Position) of OIE Reference Expert:	Miss Monaya Ekgatat, DVM, BSc, DMM. Brucellosis Advisor to DLD, National Institute of Animal Health, Department of Livestock Development
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	65,724	-
SAT	Yes	30	-
CFT	Yes	1,552	-
I-ELISA(bovine serum)	Yes	193	-
I-ELISA(bovine milk)	Yes	46	-
I-ELISA(caprine/ovine serum)	Yes	384	-
FPA	Yes	82	-
Milk Ring Test	Yes	46	-
B. canis RSAT/LFIA	No	3	-
Direct diagnostic tests		Nationally	Internationally
Culture (milk/organ/swab-fluid)	Yes	46/182/31	-
Brucella spp. PCR/Real time PCR (specimens)	Yes	42/8	-
Brucella molecular typing	Yes	42	-
Control of diagnostic antigen batches	Yes	28 (RBT antigen)	2 (RBT&CFT)

***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
National standard panel of positive sera	Diagnostic reagents batch control	Produced	32 vials (32 x1.0 ml)	5 vials (5 x 1.0 ml)	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
National standard panel of negative sera	Diagnostic reagents batch control	Produced	32 vials (32 x1.0 ml)	4 vials (4 x1.0 ml)	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
Negative serum (for reconstitute)	Diagnostic reagents batch control	Produced	16 vials (16 x5.0 ml)	8 bottles (8 x5.0 ml)	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Secondary standard bovine serum for RBT	RBT antigen batch control	Produced	10 vials (10 x1.0 ml)	10 vials (10 x1.0 ml)	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Secondary standard bovine serum for SAT	SAT antigen batch control	Produced	-	5 vials (5x1.0 ml)	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
RBT antigen	Diagnostic reagent	Provided	1010 bottles (1010x10 ml)	5 bottles (5x10 ml)	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

I-ELISA inhouse kit (NIAH)	Diagnostic reagent	Produced	1,600 tests	320 tests	1	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
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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
CHINESE TAIPEI	Serological testing	Remote assistance through email communication
ECUADOR	Serological testing	Remote assistance through email communication
INDIA	Serological testing	Remote assistance through email communication
MYANMAR	Serological testing	Remote assistance through email communication
PAPUA NEW GUINEA	Serological testing	Remote assistance through email communication

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:

Submit diagnostic results to Bureau of Disease Control and Veterinary Services for reporting to OIE.

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:

Presentation at meeting and National Conference and submit national journal.

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: 1

1. The Evaluation of Dairy Brucellosis surveillance by using serum and milk, E-Journal, Bureau of Disease Control and Veterinary Services, Department of Livestock Development, Special Issue 2019.

b) International conferences: 6

1. The 11th ASEAN Regional Animal Health Laboratory Technical Advisory Group Meeting (Lab-TAG), and The 7th Meeting of ASEAN Laboratory Directors' Forum (The 7th ALDF), 18-22 November 2019, Da Nang, Vietnam. (Dr. Banjong Jongrakwattana, NIAH-Director; participation and presentation: Updates by OIE Reference Laboratory for Brucellosis on

Activities performed in 2018-2019 and Activities planned in 2020)

2. Veterinary Diagnostic Laboratory Network Coordination Meeting with Directors of Africa and Asian Veterinary, supported by Food and Agriculture Organization of the United Nations (FAO) and the International Atomic Energy Agency (IAEA), 19-23 August 2019, Vienna, Austria, (Dr. Banjong Jongrakwattana, NIAH-Director; participation and presentation: Reference laboratory for Brucellosis)

3. Poster presentation: Improving Brucellosis Diagnosis and Control in Asia-Pacific Region Lessons Learned from Bovine Brucellosis Interlaboratory Proficiency Tests (2013-2018).

The 19th International Symposium of the World Association of Veterinary Laboratory Diagnosticians (ISWAVLD), 19-22 June 2019, Empress Hotel, Chiang Mai, Thailand

4. Participation: China Field Epidemiology Training Program for Veterinarians (China FETPV) 25-29 March, 2019, Qingdao, Shandong Province, China (presentation 2 titles)

5. 2nd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific, 12-13 March 2019, Tokyo, Japan

6. The 43th International Conference on Veterinary Science (ICVS) 2019, The Thai Veterinary Medicine Association under Royal Patronage. March 6-9, 2019. Centara Grand at Centara Plaza, Ladprao, Bangkok, Thailand.

c) National conferences: 5

1. Presentation on Brucellosis, Field Epidemiology Training Program, Classroom activity 19 August 2019: Case investigation of brucellosis in Non Thai district and Phra Thong Kham district, Nakhon Ratchasima Province, Bureau of Epidemiology. Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health, 19th August 2019, Nonthaburi, Thailand

2. The Office of Disease Prevention and Control 9, Friday Meeting: Panel Discussion: Brucellosis investigation in risked area, 28th June 2019, Nakhon Ratchasima

3. The Office of Disease Prevention and Control 9, Friday Meeting: 1) Brucellosis diagnosis, 2) Brucellosis prevention, control, surveillance and elimination, 26th April 2019, Nakhonratchasima province.

4. Knon Khen University and DLD Veterinary Services 2019: Brucellosis in goats-sheep and prevention and control in small holders, Chaiyabhum Province, Thailand, 2 March 2019

5. Knon Khen University and DLD Veterinary Services 2019: Brucellosis in goats-sheep and prevention and control in small holders, Sakon Nakhon Province, Thailand, 1 March 2019

d) Other:

(Provide website address or link to appropriate information) 2

1. Field Epidemiology Training Program for Veterinarians (FETPV): Animal Health Situation Data Analysis Proposal Development and Presentation, Bangkok, NIAH, 30th July - 2nd August, 2019.

2. Field Epidemiology Training Program for Veterinarians (FETPV): Animal Outbreak Investigation presentation, Bangkok, NIAH, 29th- 30th August and 5th September 2019.

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: 6

- b) Seminars: 0
 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
a	OIE Expert Mission	5
a	FETPV: Cambodia, China, Indonesia, Loa PDR, Myanmar, Vietnam and Thailand	15
a	Japan (JICA)	2
a	Faculty of Veterinary medicine, Hungary	1
a	Bangladesh	10
a	Japan (Animal Health)	3

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 17025:2017	ISO17025_2017_valid23072020.pdf
ISO 9001:2015	ISO9001_2015_cert valid24042020_NIAH.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Rose Bengal test (RBT)	ILAC-MRA by Bureau of Laboratory Quality Standard, Department of Medical Science
Complement Fixation test (CFT)	ILAC-MRA by Bureau of Laboratory Quality Standard, Department of Medical Science
I-ELISA	On processing (document submission)

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
2nd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific	12-13 March 2019	Tokyo, Japan	Participant, speaker	Reference Laboratory for Brucellosis: Activities and plans
China Field Epidemiology Training Program for Veterinarians (China FETPV)	25-29 March 2019	Qingdao, Shandong Province, China	Participate the workshop and speaker	- How laboratory can facilitate the outbreak investigation? - Brucellosis and Current situation in Thailand
The 19th International Symposium of the World Association of Veterinary Laboratory Diagnosticians (ISWAVLD),	19-22 June 2019	Empress Hotel, Chiang Mai, Thailand	Poster presentation	Improving Brucellosis Diagnosis and Control in Asia-Pacific Region Lessons Learned from Bovine Brucellosis Interlaboratory Proficiency Tests (2013-2018)

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.
Report: Asia-Pacific Bovine Brucellosis Interlaboratory Proficiency Test (ILPT) 2018	Organizer	54 (National and Regional Brucellosis Laboratories in Asia-Pacific and Brucellosis Laboratories within Thailand)	Advisor: Dr. Bruno Garin-Bastuji, Anses, France

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
Interlaboratory proficiency test on serological tests on RBT, CFT and I-ELISA	30 - 60 labs (interval 2 years)	<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?

No

25. Additional comments regarding your report: