World Organisation for Animal Health

Monaya Ekgatat - - THAILAND

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 30 janvier 2025 04:42

LABORATORY INFORMATION

***Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:**	Brucellosis (Brucella abortus, Brucella melitensis)
***Address of laboratory:**	50/2 Kasetklang Ladyao Chatuchak Bangkok 10900
***Tel:**	+66-891342882
***E-mail address:**	monayae@dld.go.th
Website:	https://niah.dld.go.th/
***Name (including Title) of Head of Laboratory (Responsible Official):**	Dr. Lerdchai Chintapitaksakul, DVM, (director of the National Institute of Animal Health, DLD), Dr. Reka Kanitpun, Chief of Immunology Section (Brucellosis Laboratory)
***Name (including Title and Position) of WOAH Reference Expert:**	Dr. Monaya Ekgatat, 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

TOR1: DIAGNOSTIC METHODS

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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
RBT	Yes	25821	14
SAT	Yes	0	0
CFT	Yes	1319	14
I-ELISA (bovine serum)	Yes	2101	14

I-ELISA (bovine milk)	Yes	41721	0
I-ELISA (other)	No	0	0
FPA	Yes	103	0
Milk Ring Test	Yes	511	0
Direct diagnostic tests		Nationally	Internationally
Culture (milk/organ/swab-fluid)	Yes	498	0
Brucella spp. PCR/Real tine PCR (specimens)	Yes	13	0
Brucella molecular typing	Yes	0	0
Control of diagnostic batches	Yes	632	0

TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAH Member Countries	Country of recipients
National positive control serum	Diagnostic reagents control	Produced/ provide	105 bottles (105x3 ml)	-	1	THAILAND,
National negative control serum	Diagnostic reagents control	Produced/ provide	105 bottles (105x3 ml)	-	1	THAILAND,
RBT antigen	Diagnostic reagents	Provide	964 bottles (x10 ml)	1 bottle (1x10 ml)	2	BHUTAN, THAILAND,
I-ELISA inhouse kit (NIAH)	Diagnostic reagents	Produced/ provide	40tests	-	1	THAILAND,

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAH Members?

Not applicable

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAH Members?

Yes

Name of WOAH Member Country seeking assistance	Date	Which diagnostic test used	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
BHUTAN	2024-06-20	RBT, CFT, I-ELISA	14	14

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?

Yes

Name of the WOAH Member Country receiving a technical consultancy	Purpose	How the advice was provided
BHUTAN	CFT and I-ELISA	Remote assistance through email communication
MYANMAR	CFT	Remote assistance through email communication

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?

No

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:
Compiled laboratory brucellosis sero-surveillance from Regional Veterinary Research and Development Centers (8 labs) and submitted through Bureau of Disease Control and Veterinary Services to Department of Livestock Development.

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

Presentation at national and international conference/ meeting

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

0

b) International conferences:

7
1. Participation and presentation: Regional Seminar for WOAH National Focal Points for Veterinary Laboratories, Tokyo, Japan, 16-18 July 2024 and 4th Regional Meeting for Reference Centres in Asia and the Pacific, 19 July, 2024, Hybrid
- One Health collaboration at the laboratory level –why important?
- Experiences Sharing: Brucellosis RL

2. Participation and presentation: Regional Workshop on Zoonotic Tuberculosis and Brucellosis Control in the Asia Pacific Region, Sophia International Hotel, Qingdao, China P.R., 24-26 September 2024
- Global and regional situation, progress and challenges of Animal Brucellosis
- Best practices on diagnostics, surveillance and control/elimination efforts for Brucellosis
- Current status of bovine TB/zoonotic TB & Brucellosis [THAILAND]

3. Webinar Asia-Pacific: ILPT Brucellosis Webinar 3 July 2024 Asia-Pacific

4. Participation: SEA GLLP Participant Training Session: 3 (Competency 5: Quality Management system), Department of Medical sciences, Thailand Date: 19-23 February 2024 (5 days)

5. Participation: SEA GLLP Participant Training Session: 4 (Competency 4: Communication & Competency 9: Research), Department of Medical sciences, Thailand Date: 20-24 May 2024 (5 days)

6. Participation: SEA GLLP Participant Training Session: 5 (Competency 6: Biosafety and security), Department of Medical sciences, Thailand Date: 13-16 August 2024 (4 days)

7. Participation: SEA GLLP Participant Training Session: 6 (Competency 1: Laboratory system), Department of Medical sciences, Thailand Date: 18-22 November 2024 (5 days)

c) National conferences:

1
1. Attended: ISO/IEC 17043:2023 General requirement

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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

Yes

a) Technical visit : 2

b) Seminars : 0

c) Hands-on training courses: 5

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	CHINA (PEOPLE'S REP. OF)	2
A	THAILAND	10
C	THAILAND	2
C	THAILAND	2
C	THAILAND	2
C	THAILAND	2
C	NEPAL	2

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC17025:2017	ISO-IEC 17025-2017 Certificate.jpg	ISO-IEC 17025-2017 Certificate.jpg
ISO/IEC17043:2010	ISO-IEC 17043-2010 Certificate.jpg	ISO-IEC 17043-2010 Certificate.jpg
ISO 9001:2015	ISO 9001-2015 Certificate.jpg	ISO 9001-2015 Certificate.jpg

19. 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	ILAC-MRA by Bureau of Laboratory Quality Standard, Department of Medical Science
PT provider: Brucellosis (Serological Tests)	Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

There are risk assessment evaluations to identify the hazards in the laboratory process. The risk analysis will be informed to the lab manager and the data will be provided to the biosafety committee and biosafety officers of NIAH. To mitigating risk, the lab staffs will be trained for the biosafety and biosecurity program, including, in use of PPE and facility, incident and accident response plans. Standard Operating Procedures are also implemented in the lab and will be followed by all lab staffs. The hazardous which may occur can be minimized by working in separated room with biosafety cabinets and other appropriate equipment.

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
Regional Workshop on Zoonotic Tuberculosis and Brucellosis Control in the Asia Pacific Region	2024-08-21	Qingdao, CHINA (PEOPLE'S REP. OF)	speaker, presenting poster	- Global and regional situation, progress and challenges of Animal Brucellosis - Best practices on diagnostics, surveillance and control/elimination ef f orts f or Brucellosis - Current status of bovine TB/zoonotic TB & Brucellosis [THAILAND]

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?

Yes

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen during the past 2 years?

No

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26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAH Member Countries
Inter-Laboratory proficiency testing (ILPT) was organized to develop the efficiency of Brucella testing for the same standard.	ORGANIZER	47	Asia-Pacific Bovine Brucellosis Inter Laboratory Proficiency Test	BHUTAN, BRUNEI, CHINESE TAIPEI, HONG KONG, INDIA, INDONESIA, MALAYSIA, NEW CALEDONIA, PHILIPPINES, SINGAPORE, SRI LANKA, THAILAND,

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOAH?

No

29. Additional comments regarding your report:

No