

# WOAH Reference Laboratory Reports Activities 2025

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## LABORATORY INFORMATION

<b>*Name of disease (or topic) for which you are a designated WOA Reference Laboratory:</b>	Brucellosis (Brucella abortus, Brucella melitensis)
<b>*Address of laboratory:</b>	50/2 Kasetklang Ladyao Chatuchak Bangkok 10900
<b>*Tel:</b>	+66-2579 89.08 to 14
<b>*E-mail address:</b>	monayae@dld.go.th
<b>Website:</b>	<a href="https://niah.dld.go.th/">https://niah.dld.go.th/</a>
<b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr. Lerdchai Chintapitaksakul, DVM, (director of the National Institute of Animal Health, DLD), Dr. Reka Kanitpun, Chief of Immunology Section (Brucellosis laboratory)
<b>*Name (including Title and Position) of WOA Reference Expert:</b>	Dr. Monaya Ekgat, Brucellosis Advisor to DLD, National Institute of Animal Health, Department of Livestock Development
<b>*Which of the following defines your laboratory? Check all that apply:</b>	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 WOA Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
<b>Indirect diagnostic tests</b>			
RBT	Yes	27491	0
SAT	Yes	0	0
CFT	Yes	1864	0
I-ELISA (bovine serum)	Yes	2087	0
I-ELISA (bovine milk)	Yes	4463	0
I-ELISA (other)	No	0	0
FPA	Yes	0	0
Milk Ring Test	Yes	248	0
<b>Direct diagnostic tests</b>			
Culture (milk/organ/swab-fluid)	Yes	312	0
Brucella spp. PCR/Real time PCR (specimens)	Yes	45	0
Brucella molecular typing	Yes	0	0
Control of diagnostic batches	Yes	27	0

## TOR2: REFERENCE MATERIAL

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

No

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

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOA?H Member Countries	Country of recipients
National positive control serum	diagnostic reagents control	Produced and provided	95 bottles/95x3 ml)	0	1	THAILAND,
National negative control serum	diagnostic reagents control	Produced and provided	95 bottles/95x3 ml)	0	1	THAILAND,
RBT antigen	Diagnostic reagents	Provided	917 bottles (917x10 mi)	0	1	THAILAND,
I-ELISA inhouse kit (NIAH)	Diagnostic kit	Produced and provided	800 tests	0	1	THAILAND,

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOA?H Members?

## 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 WOA?H Standards for the designated pathogen or disease?

No

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

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

## TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOA?H Member Country receiving a technical consultancy	Purpose	How the advice was provided
BHUTAN	Consultation and discussion on the establishment of a Twinning Laboratory.	Remote assistance through email communication

## TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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 (R-VRDCs, 8 labs) and submitted through Bureau

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of Disease Control and Veterinary Services to Department of Livestock Development and feedback to R-VRDCs and regional offices. In addition, the national brucellosis situation was presented and shared with regional and international laboratory networks through various international meetings and conferences.

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:

9

1. Laboratory Biosafety and Biosecurity Webinar: "Essentials of Laboratory Safety" Apr 10, 2025 03:00 PM Bangkok
2. Participation: Southeast Asia Regional One Health Global Laboratory Leadership Program (SEA GLLP) Cohort 1, Training Session: 7 (Competency: Disease Surveillance and Outbreak Investigation & Competency 8: Emergency Preparedness, Response and Recovery), Grand Richmond Stylish Convention Hotel Nonthaburi Thailand, Date: April 21-25, 2025 (Monaya Ekgat)
3. Participation and presentation: ASEAN Laboratory Technical Advisory Group (Lab-TAG) 2025, 6-8 May 2025, Vientiane, Lao PDR. (Reka Kanitpun)
4. Observation: ASEAN Coordinating Centre for Animal Health and Zoonoses (ACCAHZ) Special Meeting, 15 July 2025, Bangkok, Thailand (Reka Kanitpun)
5. Participation: Laboratory Biosafety and Biosecurity Webinar Series Part II: Fundamentals of Laboratory Biosecurity, 17 July 2025
6. Participation: Southeast Asia Regional One Health Global Laboratory Leadership Program (GLLP) Cohort 1: Training Session 8 [Graduation course] Modules: Capstone project presentation and Graduation ceremony Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailand Period: August 6-8, 2025 (3 days) (Monaya Ekgat)
7. Participation: The International Conference of Veterinary Science (ICVS 2025), 24 - 25 November 2025, IMPACT Arena, Muang Thong Thani, Pak Kret, Nonthaburi 11120, Thailand
8. Participation: GHSA Lessons Observed Webinar - Advancing Laboratory Leadership: The Global Laboratory Leadership Programme - from Framework to Impact, Dec 3, 2025
9. Webinar: Laboratory Biorisk Management, Dec 4, 2025: 03:00-5:00 pm

c) National conferences:

3

1. Participation: Internal Quality Assurance and Internal Quality Control (IQA/IQC) in Laboratory Testing in accordance with ISO/IEC 17025, 15 - 16 July 2025, National Institute of Animal Health, Thailand
2. Participation: Current livestock disease situation and trends in diagnostic technology, 22 July 2025, Phitsanulok, Thailand
3. Participation: National Laboratory Strategic Roadmap Development - National Consultation for Strengthening the National Animal Health Laboratory System in Thailand, 25-27 August 2025, Ayutthaya, Thailand

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

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## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

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- a) Technical visit : 3  
b) Seminars : 0  
c) Hands-on training courses: 6  
d) Internships (>1 month) 3

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	THAILAND	1
A	THAILAND	26
A	THAILAND	1
C	THAILAND	3
C	THAILAND	1
C	BHUTAN	10
C	BHUTAN	10
C	THAILAND	1
C	THAILAND	1
D	THAILAND	2
D	THAILAND	2
D	THAILAND	1

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO/IEC 17025:2017	ISO-IEC 17025-2017 Certificate.pdf	3_ISO-IEC 17025-2017 Certificate.pdf
ISO/IEC 17043:2023	ISO-IEC 17043-2023 Certificate.pdf	4_ISO-IEC 17043-2023 Certificate.pdf
ISO 9001:2015	ISO 9001-2015 Certificate.pdf	5_ISO 9001-2015 Certificate.pdf

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 Standards, Department of Medical Sciences, Ministry of Public Health
Complement Fixation test (CFT)	ILAC-MRA by Bureau of Laboratory Quality Standards, Department of Medical Sciences, Ministry of Public Health
I-ELISA	ILAC-MRA by Bureau of Laboratory Quality Standards, Department of Medical Sciences, Ministry of Public Health
PT provider: Brucellosis (Serological Tests: RBT, CFT, I-ELISA)	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

Risk assessments are routinely conducted to identify potential hazards associated with laboratory processes. The results of risk analyses are reported to the laboratory manager and submitted to the Biosafety Committee and Biosafety Officers of the NIAH. Laboratory personnel receive regular annual training on biosafety and biosecurity, including the proper use of PPE. Incident and accident response plans are in place, and SOPs are strictly implemented and followed by all laboratory staff. Potential hazards are further minimized by performing work in designated separated rooms equipped with biosafety cabinets and appropriate safety equipment.

## TOR9: SCIENTIFIC MEETINGS

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

No

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

No

## TOR10: NETWORK WITH WOA?H REFERENCE LABORATORIES

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

Yes

24. Are you a member of a network of WOA?H Reference Laboratories designated for the same pathogen?

No

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

No

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26. Did your laboratory collaborate with other WOA?H 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 WOA?H Reference Laboratories for the same pathogen during the past 2 years?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOA?H Member Countries
2024: the Asia-Pacific Proficiency testing (PT) was organized to develop the efficiency of Brucella testing for the same standard	Organiser	47	Detection of Brucella abortus antibody in lyophilized bovine serum by Rose Bengal test, Complement fixation test and I-ELISA	BHUTAN, BRUNEI, CHINESE TAIPEI, HONG KONG, INDIA, INDONESIA, MALAYSIA, NEW CALEDONIA, PHILIPPINES, SINGAPORE, SRI LANKA, THAILAND,
2025: National Proficiency testing (PT) was organized to develop the efficiency of Brucella testing for the same standard.	Organiser	26	Detection of Brucella abortus antibody in lyophilized bovine serum by Rose Bengal test, Complement fixation test and I-ELISA	THAILAND,

## TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No