

WOAH Reference Laboratory Reports Activities 2025

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Koi herpesvirus disease
*Address of laboratory:	
*Tel:	+81599661872
*E-mail address:	0000599@fra.go.jp
Website:	https://nria.fra.affrc.go.jp/e/DTC.html
*Name (including Title) of Head of Laboratory (Responsible Official):	Takafumi Ito (PhD), Director of Pathology division
*Name (including Title and Position) of WOAH Reference Expert:	Takafumi Ito (PhD), Director of Pathology division
*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	
		Nationally	Internationally
Indirect diagnostic tests			
ELISA	No	0	0
Direct diagnostic tests			
PCR with Sph primer	Yes	4	0
PCR with TK primer	Yes	4	3

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
Positive control DNA for PCR	PCR	Produced	0.2mL	0	0	JAPAN,
Positive control DNA for qPCR	qPCR	Produced	8.0mL	0	0	JAPAN,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHA 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 WOAHA Standards for the designated pathogen or disease?

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
KHV qPCR (Ring Test)	[Completed] we performed a Ring Test for KHV qPCR assay with other KHVD Reference Laboratory. Reference: Clouthier et al. 2017. Diagnostic validation of three test methods for detection of cyprinid herpesvirus 3 (CyHV-3). Dis Aqua Org. 123: 101-122.

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

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

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOAHA Member Country receiving a technical consultancy	Purpose	How the advice was provided
THAILAND	Technical consultancies for qPCR	Technical consultancies for qPCR

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAHA Member Countries involved other than your country
KHV qPCR Ring Test	March 2024 through March 2025	To validate reproducibility of qPCR assay for KHV (Ring Test)	Friedrich-Loeffler-Institut, Germany	GERMANY

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

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:

We collected epidemiological data for a novel cyprinid herpesvirus, which is called 'KHV variant'.

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

No

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:

2

Inada M, Yuasa K, Kurobe T, Kishihara T, Matoyama H, Nagai T, Itagaki N, Kitamura S, Ito T: Molecular epidemiological survey of carp edema virus genogroup II from koi *Cyprinus carpio* in Japan. *Fish Pathology*, (2025) 60: 113-129

Umeda K, Takano T, Matsuyama T, Ito T: Virucidal activity of commonly used disinfectants against Japanese eel endothelial cells-infecting virus (JEECV). *Fish Pathology*, in press

b) International conferences:

0

c) National conferences:

1

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

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025	ISO certificate of accreditation.pdf	

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PCR	Perry Johnson Laboratory Accreditation, Inc.

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

Yes

Access to the laboratory is restricted. Personnel uses PPEs and follows basic laboratory procedures to avoid accidental exposure to the pathogen. All contaminated lab supplies (e.g., dissecting tools) are autoclaved to prevent the pathogen from releasing into the environment.

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

Yes

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

No

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

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOA Ref. Labs/ organising WOA Ref Lab
Determining a laboratory's capability to conduct specific diagnostic tests (EU ring test)	Participant	43	National Institute for Aquatic Resources , Technical University of Denmark

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAH Member Countries
Determining a laboratory's capability to conduct specific diagnostic tests	Organiser	13	National ring test of KHVD	JAPAN,

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report: