

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Newcastle disease
*Address of laboratory:	177 Hyeoksin 8-ro, Gimecheon-si, Gyeongsangbuk-do, Republic of Korea
*Tel:	+82-54 912 0817
*E-mail address:	jiyekim@korea.kr
Website:	http://www.qia.go.kr
*Name (including Title) of Head of Laboratory (Responsible Official):	Jung-Hee Kim(Commissioner), APQA
*Name (including Title and Position) of WOAH Reference Expert:	Ji-Ye Kim, DVM, Ph.D Veterinary Researcher, Newcastle disease Laboratory, Avian Disease division, Animal and Plant Quarantine Agency (APQA)
*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
HI test	Yes	1049	0
Direct diagnostic tests		Nationally	Internationally
Virus detection and isolation(RRT-PCR, RT-PCR, egg inoculation)	Yes	2461	9

TOR2: REFERENCE MATERIAL

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

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA 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 Member Countries	Country of recipients
Control positive antigen and antiserum	HI serologic test	Test Provide	117 ml (11,700 dose)	0	1	KOREA (REP. OF),

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOA Members?

Not applicable

TOR3: NEW PROCEDURES

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

Yes

Name of the new test or diagnostic method developed	Description and References (Publication, website, etc.)
Primers for rRT-PCR based detection and quantitation of pathogenic and nonpathogenic Newcastle disease virus and its use	Patent application (no. PCT/KR2024/095076)

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

Name of WOA 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
VIETNAM	2024-12-03	RRT-PCR	9	7

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

Yes

Name of the WOA Member Country receiving a technical consultancy	Purpose	How the advice was provided
VIETNAM	differentiate between virulent and avirulent NDV strains	in seminar('24.11, Rep.of Korea)

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
The molecular epidemiology of Newcastle disease, Infectious bronchitis and infectious bursal disease in Vietnam	2023-2025	To extend the understanding of epidemiology of the poultry diseases in Southeast Asia	Vietnam National Agriculture University (VNUA)	VIETNAM

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

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:

Molecular epidemiology of Newcastle disease in Vietnam

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:

Characterization of Newcastle disease viruses currently circulating in Vietnam

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:

b) International conferences:

1

WOHA Regional Workshop on Avian Diseases Prevention and Control in Asian and the Pacific Region "Surveillance activities of Newcastle disease in Korea" (WOAH, Aug 28, 2024)

c) National conferences:

1

Avian Disease Diagnosis training workshop (May, 2024, APQA)

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 WOAH Members?

Yes

a) Technical visit : 0

b) Seminars : 22

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
B	PHILIPPINES	2
B	SRI LANKA	1
B	MALAYSIA	2
B	MONGOLIA	2
B	SINGAPORE	2
B	KAZAKHSTAN	2
B	THAILAND	1
B	VIETNAM	10

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO17025	pdf	20241121_KT372_Animal_and_Plant_Quarantine_Agency_PM_Eng.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
identification of the agent(molecular techniques)	KOLAS-Korean Laboratory Accreditation Scheme
Serologic test (HA, HI)	KOLAS-Korean Laboratory Accreditation Scheme

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

Yes

A national bio-risk management is designated to prevent disease among personnel and to protect the community from harm by preventing the release of infectious pathogen.

TOR9: SCIENTIFIC MEETINGS

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

No

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
WOAH avian disease network in East asia	2024-04-01	online(Zoom)	participants	
WOAH Regional Workshop for Avian disease prevention and control in Asia and the Pacific	2024-08-27	Seoul (Rep.of Korea)	Speaker	Current Newcastle disease situation, Surveillance activities on Newcastle disease in Korea nad Research activities

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Yes

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

Yes

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Ji-Ye Kim - - KOREA_(REP_OF)

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS
WOAH-RRAP (Newcastle disease)	participant	2	WOAH Reference Laboratory for Newcastle Disease

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP 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 WOAHP Ref. Labs/ organising WOAHP Ref Lab
2024 PT programme AQUA IN for Newcastle disease	participant	information available from organiser (IZSVe, Italia)	Organising by IZSVe (Italia)

26. Did your laboratory collaborate with other WOAHP 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 WOAHP 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	WOAHP Member Countries
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Annual national proficiency test for diagnosis of Newcastle disease

organizer

65

ND antigen detection (RRT-PCR)/ ND antibody test(HI)

KOREA (REP. OF),

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No