World Organisation for Animal Health

Min-Su Kang - - KOREA_(REP_OF)

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 3 décembre 2024 01:25

LABORATORY INFORMATION

***Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:**	Salmonellosis
***Address of laboratory:**	Animal and Plant Quarantine Agency (APQA) Ministry of Agriculture, Food and Rural Affairs (MAFRA) 177, Hyeoksin 8-ro Gimcheon-si Gyeongsangbuk-do, 39660,
***Tel:**	+82-54 912 08 18
***E-mail address:**	kangmskr@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:**	Min-Su Kang, DVM, PhD, Senior Veterinary Researcher, Chief of Avian Bacteriology Laboratory, Avian Disease Research Division, 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
-		0	0
Direct diagnostic tests		Nationally	Internationally
Isolation and identification	Yes	491	0
Serotyping	Yes	491	0

PFGE	No	102	0
MLVA	No	102	0
Antimicrobial susceptibility test	Yes	491	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
PCR kit	Differential identification of Salmonella Gallinarum and Pullorum	Provide	2,650 tests (53 ml)	0	1	KOREA (REP. OF),

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH Members?

No

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?

No

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	Purpose	

consultancy		How the advice was provided
VIETNAM	The control strategies for fowl typhoid and pullorum disease in chickens	Meeting in Korea

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?

No

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:
Current status of control of Salmonella Pullorum and Salmonella Gallinarum in chickens in Korea.

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:

2

1. Serotype distribution and antimicrobial resistance of Salmonella spp. isolated from chicken carcasses in South Korea. 2023 Oct. Italy, IUMS 2024

2. MLST-based genetic relatedness and antimicrobial resistance of Campylobacter jejuni isolated from chicken slaughterhouses in South Korea. 2023 Oct. Italy, IUMS 2024

c) National conferences:

2

1. Whole genome sequencing analysis of Salmonella Enteritidis isolates from poultry in South Korea, 2020-2024. 2024 Oct. Conference of

Korean Society of Veterinary Science
2. Characteristics of Salmonella Typhimurium and monophasic variant of Typhimurium recently occurring in poultry in Korea. 2024 Oct. Conference of Korean Society of Veterinary Science

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 : 7

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	MALAYSIA	2
B	MONGOLIA	2
B	SINGAPORE	2
B	THAILAND	1
B	KAZAKHSTAN	2
B	PHILIPPINES	2
B	SRI LANKA	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 17025	2024 KOLAS ISO 17025 Certificate	2024 KOLAS ISO 17025 Certificate.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Identification of the agent (isolation and identification, serotyping)	Korea Laboratory Accreditation Scheme (KOLAS)
Serological tests (RSA)	KOLAS

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

Yes

Under the Laboratory Safety Management System, our laboratory complies with Biosafety Level II (BSL-2) practices for Salmonellosis with daily checkups.

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?

No

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?

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOAH Ref. Labs/ organising WOAH Ref Lab
Sensitivity and specificity of Salmonella identification from poultry-associated samples	Participant	100	Various/Animal and Plant Health Agency (United Kingdom)

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
National proficienty test for differential identification of				

differential identification of Salmonella Gallinarum and Salmonella Pullorum	Organiser	63	PCR	KOREA (REP. OF),

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No