

WOAH Reference Laboratory Reports Activities 2025

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAHO 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 0818
*E-mail address:	kjh1123@korea.kr
Website:	http://www.qia.go.kr
*Name (including Title) of Head of Laboratory (Responsible Official):	Jung-Rok Choi, Commissioner, APQA
*Name (including Title and Position) of WOAHO Reference Expert:	Min-Su Kang, DVM, PhD, Former 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 WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
-		0	0
Direct diagnostic tests			
Isolation and identification	Yes	905	0
Serotyping	Yes	905	0
PFGE	No	57	0
MLVA	No	57	0
Antimicrobial susceptibility test	Yes	905	0

TOR2: REFERENCE MATERIAL

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

No

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

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAHO Member Countries	Country of recipients

Min-Su Kang - - KOREA_(REP_OF)

PCR kit	Differential identification of Salmonella Gallinarum and Pullorum	Provide	2,900 tests (58 ml)	0	1	KOREA (REP. OF),
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4. Did your laboratory produce vaccines?

No

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

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

Name of the WOAHO Member Country receiving a technical consultancy	Purpose	How the advice was provided
VIETNAM	The control strategies for Salmonellosis in chickens	Meeting in Korea

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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:

PFGE and MLVA genotyping data of Salmonella Enteritidis and Salmonella Typhimurium isolated from Korea

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 Enteritidis and Salmonella Typhimurium 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:

1

Emergence and characteristics of multidrug-resistant Salmonella enterica subspecies enterica serovar Infantis harboring the pESI plasmid in chicken slaughterhouses in South Korea, Microbiology spectrum, 2025, 13(7)

b) International conferences:

1

Antibacterial activity of secondary metabolites from the marine-derived Zooshikella sp. SJ_B3-9, Jul 2025, Italy, FEMS MICRO 2025

c) National conferences:

3

1. *Characterization analysis of Salmonella Gallinarum isolated from chickens in South Korea, Nov 2025, Conference of Korean Society of Poultry Science*

2. *Toxin types and antimicrobial resistance patterns of Clostridium perfringens isolated from meat in chicken slaughterhouse in South Korea, Nov 2025, Conference of Korean Society of Poultry Science*

3. *Strategies to Salmonella control in South Korea, May 2025, Symposium of Korean Society of Poultry 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 WOA Members?

Yes

a) Technical visit : 0

b) Seminars : 27

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	1
B	SINGAPORE	2
B	THAILAND	2
B	SRI LANKA	2
B	LAOS	2
B	MYANMAR	2
B	BANGLADESH	1
B	VIETNAM	15

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 WOAHP?

No

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

No

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

No

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

No

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
Sensitivity and specificity of Salmonella identification from poultry-associated samples	Participant	63	Various/Animal and Plant Health Agency (United Kingdom)

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
National proficiency test for differential identification of Salmonella Gallinarum and Salmonella Pullorum	Organizer	63	PCR	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