

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 31 mai 2023 09:36

Laboratory Information

Name of disease (or topic) for which you are a designated WOA 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, KOREA (REP. OF)
Tel.:	+82-54-912-0818
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Website:	http://www.qia.go.kr
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Bong-Kyun Park, DVM, PhD, Commissioner, APQA
Name (including Title and Position) of WOA 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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Direct diagnostic tests		Nationally	Internationally
Isolation and identification	Yes	202	20
Serotyping	Yes	202	20
PFGE	No	68	0

MLVA	No	68	0
cgMLST	No	43	0
Antimicrobial susceptibility testing	No	202	20

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
PCR kit	Differential identification of Salmonella Gallinarum and Pullorum	Provide	4,300 tests (86 ml)	0	1	Asia and Pacific

4. Did your laboratory produce vaccines?

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

NAME OF WOA?H MEMBER COUNTRY SEEKING ASSISTANCE	DATE	WHICH DIAGNOSTIC TEST USED	NO. SAMPLES RECEIVED FOR PROVISION OF DIAGNOSTIC SUPPORT	NO. SAMPLES RECEIVED FOR PROVISION OF CONFIRMATORY
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				DIAGNOSES
MALAYSIA	2022-11-30	Serotyping	0	20

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
MALAYSIA	Analysis of antimicrobial resistance patterns	

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 Salmonellosis in Malaysia	January-December	The extension of understanding on the epidemiology of poultry diseases in Southeast Asia	Universiti Putra Malaysia	MALAYSIA

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:

Antimicrobial resistance of Salmonella isolated from chicken meat in Malaysia

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:

1. Genetic characterization of Salmonella Gallinarum isolated from chickens using whole genome sequencing
2. Genotypic analysis of recent isolates of Salmonella Typhimurium from poultry in Korea
3. Whole genome sequencing analysis of recent isolates of Salmonella Enteritidis from poultry 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

A multiplex real-time PCR assay for differential identification of avian Chlamydia. Avian Pathology, 2022, 51(2):164-170.

b) International conferences:

0

c) National conferences:

3

1. *Genetic characterization of Salmonella Gallinarum isolated from chickens using whole genome sequencing. Jeju, Korea, Nov. 17 - Nov. 19, 2022.*

2. *Genotypic analysis of recent isolates of Salmonella Typhimurium from poultry in Korea. Jeju, Korea, Nov. 17 - Nov. 19, 2022.*

3. *Whole genome sequencing analysis of recent isolates of Salmonella Enteritidis from poultry in Korea. Daejeon, Korea, Nov. 3 - Nov. 4, 2022.*

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

0

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0

b) Seminars : 5

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	The Philippines	10
b	Sri Lanka	4
b	Malaysia	2
b	Vietnam	2
b	Kazakhstan	5

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	2022 KOLAS ISO 17025 Certificate.pdf	2023 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 Salmonella 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?

Yes

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?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS/ ORGANISING WOAHP 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 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 WOAHA Reference Laboratories for the same pathogen?

No

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No