

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 13 juin 2024 16:38

Laboratory Information

Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:	Mycoplasma gallisepticum and Mycoplasma synoviae
Address of laboratory:	Bati Mahallesi Yunus Caddesi 2/1 Pendik Istanbul Turkiye 34890
Tel.:	+ 90 216 390 12 80
E-mail address:	umit.sevimli@outlook.com
Website:	https://vetkontrol.tarimorman.gov.tr/pendik/Sayfalar/EN/AnaSayfa.aspx
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Mustafa KESMEN, Director
Name (including Title and Position) of WOAHO Reference Expert:	Dr. Umit SEVIMLI, Chief of Mycoplasma Reference Laboratory
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			
Indirect ELISA for M. synoviae		1880	0
Direct diagnostic tests			
Mycoplasma gallisepticum culturing		390	0
Real Time PCR for M. gallisepticum		866	0
PCR for M. gallisepticum		421	0
Mycoplasma synoviae culturing		1880	0
Real Time PCR for M. synoviae		866	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 (nonWOAHO-approved) and/or other diagnostic reagents to WOAHO Members?

Yes

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TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOAHP MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
Plate test antigen for M.gallisepticum and M.synoviae	Plate agglutination test	PRODUCED	930 ml M.gallisepticum antigen	40 ml (20 ml Mg, 20 ml Ms)	1	NIGERIA,
CCPP PCR control DNA	Moleculer	PROVIDE	-	2 ml	2	INDIA, SWITZERLAND,

4. Did your laboratory produce vaccines?

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

Yes

NAME OF THE WOAHP MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
AZERBAIJAN	Consultation	Online Meeting
NIGERIA	Consultation	By e-mail
SWITZERLAND	Training	Hands-on training courses
TAJKISTAN	Training	Hands-on training courses

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAHP MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Biosurveillance and risk assessment for small ruminant morbillivirus and Mycoplasma capricolum in goat populations in the Baku and Agdjebedi regions of Azerbaijan	1-5 years	The proposed project on CCPP and PPR will involve experts from the Pendik Veterinary Control Institute in Turkey and the State Laboratory of Agriculture (SLA) in Georgia to utilize their experience with these diseases in the capacity building process and to further trans-border communication and collaboration in the region. It is expected that the expertise and information generated here will be the base for establishing sustainable national surveillance	Ministry of Agriculture, Central Reference Laboratory (MoA CRL) Azerbaijan Veterinary Science Research Institute (AVSRI): Azerbaijan State Agrarian (ASA) and the veterinary sections of Regional Agrarian Centers University of Connecticut, Department of Pathobiology and Veterinary Science State Laboratory of Agriculture (SLA), Georgia Labyrinth Global Health Azerbaijan	AZERBAIJAN GEORGIA UNITED STATES OF AMERICA

		programs for CCPP and PPR in AZ.		
Discountools CBPP and CCPP	One month	Disease & Product analysis document Gap Analysis and Prioritisation Scoring sheets	CIRAD, France	FRANCE

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

Yes

Research need : 1

Please type the Research need: We observed two differences between the WOA?H Terrestrial Handbook 2021, Section 3.3.5 - Avian mycoplasmosis (*Mycoplasma gallisepticum*, *M synoviae*) page 10 and the original publication of Development of Diagnostic Real-Time PCRs The Four Pathogenic Mycoplasmas (Ziv Raviv and Stanley H. Kleven). Different parts are written in bold italics and underlined below.

Relevance for WOA?H Other, Standard Setting,

Relevance for the Codes or Manual Manual,

Field Diagnostics,

Animal Category Terrestrial,

Disease:

Avian mycoplasmosis (*Mycoplasma gallisepticum*, *Mycoplasma synoviae*)

Kind of disease (Zoonosis, Transboundary diseases) Transboundary diseases,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer: In the Chapter 3.3.5 – Avian mycoplasmosis (*Mycoplasma gallisepticum*, *M synoviae*), page 10, OIE Terrestrial Manual 2021,

Notes:

Answer: 1. "Each reaction contains a total of 25 µl comprising 5 µl of target DNA, 12.5 µl of 2× of universal real-time PCR master mix, 5 µM of each final primer and 0.2 µM final probe" 2. "MGRrtr 5'-CCA-AGG-GAT-TCA-ACC-ATC-3' " (At the end 2 nucleotide is missing.) In the original publication (Ziv Raviv and Stanley H. Kleven) Development of Diagnostic Real-Time PCRs The Four Pathogenic Mycoplasma (<https://doi.org/10.1637/8469-091508-Reg.1>) Page 104 under the Real-Time TaqMan PCR primers, probes and reaction conditions 1. "Primers and probes were utilized in a 25 µl reaction mix containing 12.5 µl of 2x QuantiFast Probe PCR Mix without ROX dye (Qiagen), primers to a final concentration of 0.5 µM, and a probe to a final concentration of 0.2 µM, 5.0 ml of water, and 5.0 µl of DNA template solution " 2. " MGRrtr 5'-CCA-AGG-GAT-TCA-ACC-ATC-TT -3'"

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:

Information on all animal diseases in Turkey is collected in a system called VELBIS established within the Ministry of Agriculture and Forestry. The epidemiology unit of the Institute collects epidemiological data from all laboratories on a quarterly basis. The Directorate of the Institute shares the epidemiological data collected from all laboratories with the Ministry of Agriculture and Forestry every 3 months.
Annual reports to Ministry of Agriculture and Forestry.

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:

Publications, Technical meetings and Reports.

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:

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Dayo O I, Adeola A E, Igbekele A A, Özdemir Ü, Sunday A D. (2022) Prevalence of *Mycoplasma gallisepticum* and *Mycoplasma synoviae* in Free Range Chickens and Wild Birds in Osun, Oyo and Kwara States Nigeria *Tropical Veterinarian*, 40: (I & II), 1-13. WEBSITE: www.tropivet.com ISSN 0794-4845, Nigeria

Cengiz Ş, Okur S, Oz C, Turgut F, Gumurcinler B, Sevuk N S, Kekeç A I, Cepoglu H, Sevimli Ü and Adiguzel M C. (2023) Prevalence and clonal diversity of methicillin-resistant *Staphylococcus aerous* and methicillin-resistant *Staphylococcus pseudointermeius* isolated from dogs and cats with eye discharge. *Acta Microbiologica et Immunologica Hungaria*. 70 (2) , 134- 141.

DOI : <https://doi.org/10.1556/030.2023.01899>

b) International conferences:

c) National conferences:

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

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Annual report to the Ministry of Agriculture and Forestry of Türkiye

<https://vetkontrol.tarimorman.gov.tr/pendik/Sayfalar/Detay.aspx?Sayfalid=11>

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 : 1

b) Seminars : 2

c) Hands-on training courses: 2

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
A	AZERBAIJAN	2
C	TAJIKISTAN	1
B	AZERBAIJAN	2
B	GEORGIA	1
C	SWITZERLAND	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
EN ISO/IEC 17025	PDF	AKREDITASYON SERTİFİKASI VE KAPSAMI.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Isolation and identification of <i>Mycoplasma meleagridis</i>	TURKAK
Diagnosis of <i>Mycoplasma gallisepticum</i> by Real-Time PCR	TURKAK
Diagnosis of Contagious agalactiae by PCR	TURKAK
Isolation and identification of <i>Mycoplasma gallisepticum</i>	TURKAK

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

Yes

Personnel biorisk training, Biological agents and toxin inventory and information system, General laboratory safety programme: chemical safety, clothing and personal protective equipment, waste management, worker health programme, biological safety cabinets etc.

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. Do you network (collaborate or share information) with other 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?

No

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?

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
Ring trial : M. gallicepticum plate test	Organizer (Postponed)	5	M. gallicepticum plate test	TURKEY,
Ring trial : M. synoviae plate test	Organizer (Postponed)	5	M. synoviae plate test	TURKEY,

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

On Feb. 6, 2023, a magnitude 7.8 earthquake occurred in our country. Many of our provinces were affected by the earthquake and a major disaster occurred. For this reason, some national congresses were canceled, organized technical meetings and ring trials were postponed.

-Therefore, a national Mg/Ms ring trial was organized in 2023 but unfortunately, it had to be postponed to 2024. Postponed ring trials will be held in 2024. Meetings rescheduled for 2024