

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-02-01 10:36:08

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Avian mycoplasmosis (Mycoplasma gallisepticum, M. synoviae)
Address of laboratory:	Pendik Veterinary Control Institute Batı mahallesi Erol Kaya caddesi 1 34890 İstanbul TURKEY
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Website:	https://vetkontrol.tarimorman.gov.tr/pendik
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Fahriye Saraç
Name (including Title and Position) of OIE Reference Expert:	Dr. Umit Sevimli
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests		Nationally	Internationally
iELISA	Yes	740	no
RSA	Yes	no	no
Direct diagnostic tests		Nationally	Internationally
MG Bacteriological culture	Yes	454	No
MG PCR	Yes	454	No
Real-Time PCR (Mg/Ms)	No	90	No
MS Bacteriological culture	Yes	1481	No
MS PCR	No		No

ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards. To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Mg rapid serum agglutination antigen	Mg rapid serum agglutination test	Produced	280 ml	50 ml	Nigeria	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
<i>Mycoplasma gallisepticum</i> R Low challenge strain		Provided	No	2 Piece (lyophilized)	Bulgaria	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Ms rapid serum agglutination antigen	Ms rapid serum agglutination test	Produced	20 ml	50 ml	Nigeria	<input checked="" type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

No

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

In accordance with the legislation of our Ministry of Agriculture and Forest, routine controls of Hatchery and Poultry Breeding Enterprises in terms of Mg and Mm are carried out in 6 months. If positive, flocks are culled. Imported breeding eggs are also routinely checked for the presence of Ms.

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

Notification is made to the Ministry.

13. What method of dissemination of information is most often used by your laboratory?

(Indicate in the appropriate box the number by category)

a) Articles published in peer-reviewed journals: 0

b) International conferences: 2

-Risk Awareness for Visitors in the Visitor Center in Pendik Veterinary Control Institute. 63th Annual Biosafety and Biosecurity Conference. 4-6 Oct 2020. Niki Drazenovich, MS, RBP, CBSP University of California, DAVIS.

Muhammed KARAHAN.

-T.R. Ministry of Agriculture and Forestry Real Time Biosecurity Series. 13 Aug – 10 Sep 2020. Online Conference. Project Safe Lab, LLC. Muhammed KARAHAN

c) National conferences: 1

-Isolation of *Mycoplasma* spp. from goose lungs with pneumonia and identification of the isolates by molecular methods. 14th National Veterinary Microbiology Congress, 13-16 Oct 2020, Konya/Turkey. Özgür ÇELEBİ, Ümit ÖZDEMİR, Fatih BÜYÜK, Aysel ÜNSAL BACA, Şefika Hande ERPEK, Muhammed KARAHAN, Salih OTLU, Mitat ŞAHİN, Mustafa Reha COŞKUN, Elif ÇELİK, Aliye GÜLMEZ SAĞLAM, Eray BÜYÜK, Doğan AKÇA.

d) Other:

(Provide website address or link to appropriate information) 0

**ToR 7: To provide scientific and technical training for personnel from OIE Member Countries
To recommend the prescribed and alternative tests or vaccines as OIE Standards**

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

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

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
<i>Mycoplasma gallisepticum</i> isolation&identification	TURKAK
<i>Mycoplasma meleagridis</i> isolation&identification	TURKAK
<i>Mycoplasma gallisepticum</i> agent detection- Real Time PCR	TURKAK

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

Yes

(See *Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4*)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

No

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

No

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Mycoplasma gallisepticum RSA Proficiency Test	7	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Agalactiae AB Detection (participate)	5	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Agalactiae PCR Detection (participate)	5	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report:

- In accordance with the legislation of our Ministry of Agriculture and Forest, routine controls of Hatchery and Poultry Breeding Enterprises in terms of Mg and Mm are carried out in every 6 months. Sequence analysis of Mg positive samples was performed. If positive, flocks are culled.
- Imported breeding eggs are also routinely checked for the presence of Ms.
- Isolation and molecular identification of mycoplasma and pasteurella sp and determination of antibiotic susceptibility in geese project with collaboration Kafkas University Research Centre 2018-Present is completed.
- Investigation on presence of Mycoplasma iowae at Hatchery and Poultry Breeding Farms by Bacteriological and Molecular Techniques Project is still proceeding.

- Technical training was given to the new staff of our laboratory.
- Within the scope of the project titled "Development of Inactive Covid-19 Vaccine" the presence of *Mycoplasma* spp. as contaminant were investigated in some cell culture ingredients, in cell cultures by culture method and *Mycoplasma* genus specific PCR in our laboratory.
- Participation to the proficiency tests was carried out in Contagious agalactia Ab Detection and Contagious agalactia PCR Detection organised by APHA OIE Reference Laboratory.