OIE Reference Laboratory Reports Activities

Activities in 2021

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Contagious equine metritis
Address of laboratory:	ANSES, Laboratory for Animal Health Normandy site Physiopathology and Epidemiology of Equine Diseases (PhEED) Unit RD675 14430 Dozulé FRANCE
Tel.:	+33-[0]2 31.79.22.76
Fax:	
E-mail address:	sandrine.petry@anses.fr
Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Pascal Boireau (PhD, DMV, HDR) Directeur du laboratoire de santé animale
Name (including Title and Position) of OIE Reference Expert:	Sandrine Petry (PhD, HDR) Adjointe au chef d'Unité physiopathologie et épidémiologie des Maladies équines (PhEED) et Responsable de l'équipe Bactériologie
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	
Indirect diagnostic tests		Nationally	Internationally
sans objet	sans objet	sans objet	sans objet
Direct diagnostic tests		Nationally	Internationally
Diagnostic bactériologique de la métrite contagieuse équine	oui	1	0

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
Sérum anti-T. equigenitalis pour test d'agglutination sur lame	Diagnostic bactériologique de la métrite contagieuse équine	Produit	26 x 1 ml et 15 x 0.2 ml	0	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
Souches bactériennes identifiées (Taylorella spp.)	Diagnostic bactériologique de la métrite contagieuse équine, PCR et IFAT	Produit	1 souche	0	1	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐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?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
UNITED KINGDOM	Génotypage MLST d'une souche de Taylorella asinigenitalis	- Confirmation de l'espèce bactérienne par bactériologie, PCR et IFAT - Réalisation du génotypage MLST selon Duquesne et al. 2013 - Rendu d'un rapport d'analyse et échanges par emails
THE NETHERLANDS	Génotypage MLST : curation de séquences d'ADN dans la base internationale https://pubmlst.org/taylorella/	- Curation des séquences d'ADN dans la base https://pubmlst.org/taylorella/ - Echanges par emails
SPAIN	Génotypage MLST : curation de séquences d'ADN dans la base internationale https://pubmlst.org/taylorella/	- Curation des séquences d'ADN dans la base https://pubmlst.org/taylorella/ - Echanges par emails
DENMARK	Echanges sur la PCR et sur de possibles nouvelles cibles spécifiques pour la détection de Taylorella equigenitalis	Echanges par emails
PORTUGAL	Demande d'information sur l'impact de la variation du taux de CO2 lors du diagnostic bactériologique de la métrite contagieuse équine	Echanges par emails
SPAIN	Demande d'information sur les fournisseurs de milieux de culture pour le diagnostic bactériologique de la métrite contagieuse équine suite à des difficultés de livraison de réactifs	Echanges par emails

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:
Chaque année notre laboratoire recueille le nombre de cas de métrite contagieuse équine reportés dans 23 pays Européens. Il s'agit en 2021 du nombre de cas reportés en 2020 (192 cas de métrite contagieuse équine reportés dans huit pays européens sur les 23 interrogés).

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:
Chaque année notre laboratoire diffuse le nombre de cas de métrite contagieuse équine reportés dans 23 pays Européens au réseau de laboratoires ayant répondu à notre demande de remontée de cas. Il s'agit en 2021 du nombre de cas reportés en 2020 (192 cas de métrite contagieuse équine reportés dans huit pays européens sur les 23 interrogés).

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: 3
Wilsher S, Omar H, Ismer A, Allen T, Wernery U, Joseph M, Mawhinney I, Florea L, Thurston L, Duquesne F & Petry S (2021). A new strain of Taylorella asinigenitalis shows differing pathogenicity in mares and Jenny donkeys. Equine Vet. J. 53(5):990-995. DOI: 10.1111/evj.13382

Duquesne F, Breuil MF, Hans A & Petry S (2021). Preservation of viable Taylorella equigenitalis in different commercially available transport systems. Vet. J. 270, 105629. DOI: 10.1016/j.tvjl.2021.105629

Breuil MF, Joseph M & Petry S (in press). Comparison of five basal compositions of selective chocolate agar media for isolation of Taylorella equigenitalis. J. Equine Vet. Sci. 110:103829. DOI: 10.1016/j.jevs.2021.103829

b) International conferences: 2
Petry S, Py JS, Wilhelm A, Duquesne F, Bäyon-Auboyer MH, Morvan H, Gassilloud B (2021) MALDI-TOF MS for the differentiation of Taylorella equigenitalis and Taylorella asinigenitalis. 11th International Equine Infectious Diseases Conference, September 27 to October 01, 2021. https://doi.org/10.1111/evj.38_13495

Duquesne F, Merlin A, Pérez-Cobo I, Sedlák K, Melzer F, Overesch G, Fretin D, Iwaniak W, Breuil MF, Wernery U, Hicks J, Agüero-García M, Frías-Serrano N, San Miguel-Ibáñez E, Patrasová E, Waldvogel AS, Szulowski K, Joseph M, Jeeba J, Shanty J, Varghese P, Hans A, Petry S (2021) Overview of spatio-temporal distribution inferred by multi-locus sequence typing of Taylorella equigenitalis isolated worldwide from 1977 to 2018 in equidae. 11th International Equine Infectious Diseases Conference, September 27 to October 01, 2021. https://doi.org/10.1111/evj.37_13495

c) National conferences: 1
Petry S, Py JS, Wilhelm A, Duquesne F, Bäyon-Auboyer MH, Morvan H, Gassilloud B (2021). Utilisation de la spectrométrie de masse de type MALDI-TOF comme test de diagnostic différentiel pour la métrite contagieuse équine. Congrès de la SFM, Cité des Congrès, Nantes, 22-24 septembre 2021

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)
NF EN ISO/CEI 17025	CoFrac 1-6764 du 211001.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Isolement et identification de Taylorella equigenitalis (diagnostic bactériologique de la métrite contagieuse équine) selon la norme NF U47-108 / Matrice : prélèvements génitaux d'équidés	Cofrac
Identification de Taylorella equigenitalis (diagnostic bactériologique de la métrite contagieuse équine) selon la norme NF U 47-108 (identification § 9.2.2) / Matrice : souches bactériennes	Cofrac
Extraction manuelle par absorption sur colonne et amplification par PCR en temps réel selon la méthode interne ANSES/LSA-INS-1433 / Matrice : prélèvements génitaux d'équidés	Cofrac
Extraction manuelle par lyse thermique et amplification par PCR en temps réel selon la méthode interne ANSES/LSA-INS-1433 / Matrice : souches bactériennes	Cofrac
Identification de Taylorella equigenitalis par immunofluorescence (IFAT) selon la norme NF U47-110 / Matrice : prélèvements génitaux d'équidés	Cofrac
Identification de Taylorella equigenitalis par immunofluorescence (IFAT) selon la méthode interne ANSES/LSA-INS-1346 / Matrice : souches bactériennes	Cofrac

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?

Yes

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
Evaluer l'aptitude du réseau national de laboratoires agréés pour le diagnostic de la métrite contagieuse équine par PCR	20	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
Evaluer l'aptitude du réseau national de laboratoires agréés pour le diagnostic de la métrite contagieuse équine par IFAT	21	☐Africa ☐Americas ☐Asia and Pacific ☒Europe ☐Middle East
Evaluer l'aptitude des laboratoires participants à réaliser des épreuves diagnostiques spécifiques (bactériologie et/ou PCR) pour le diagnostic de la métrite contagieuse équine (PT0102: Taylorella equigenitalis, non-UK labs)	22	☒Africa ☒Americas ☒Asia and Pacific ☒Europe ☒Middle East
Evaluer l'aptitude des laboratoires participants à réaliser des épreuves diagnostiques spécifiques (bactériologie et/ou PCR) pour le diagnostic de la métrite contagieuse équine (PT0102: Taylorella equigenitalis, non-UK labs)	21	☒Africa ☒Americas ☒Asia and Pacific ☒Europe ☒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:

Notre laboratoire a été nommé Laboratoire de référence de l'OIE pour la Métrite contagieuse équine en juin 2021.

Notre laboratoire a relu et fait un retour de commentaires sur le Chapitre 3.6.2. Contagious Equine Metritis, OIE Terrestrial Manual 2022 par l'intermédiaire de notre autorité nationale (DGAl, Ministère de l'Agriculture et de l'Alimentation).