

ADIAVET™ - CEMO *Taylorella* real time

ADI501-CEMO_Taylorella_PP01_(EN)_V01
06/04/2021

Real Time PCR

Reference : ADI501

A BRIEF OUTLOOK ON THE DISEASE

Contagious equine metritis is a sexually transmitted disease specific to equids caused by the bacterium *Taylorella equigenitalis* that is notifiable to the OIE. This disease can have reproductive consequences (sterility and sometimes abortions). Infected stallions are asymptomatic.

In mares the infection is characterized by abundant vaginal exudate.

Other bacteria, such as *Taylorella asinigenitalis*, *Klebsiella pneumoniae*, and *Pseudomonas aeruginosa*, are also found in metritis and may require treatment.

Bacterial culture and Immuno fluorescence used to be the only reference method and PCR is now a new fast and sensitive method available.

THE NEW ANIMAL HEALTH LAW (AHL) EU REGULATION

Commission Implementing Regulation (EU) 2018/1882 lays down rules for the application of AHL with regards to diseases classification in categories and **Contagious Equine Metritis** (CEM) enters in category D.

As the 23 diseases listed in category D CME is a disease for which measures are needed to prevent it from spreading on account of its entry into the European Union or movements between Member States, as referred to in Article 9(1)(d) of AHL. Real Time PCR are now considered as reference methods for terrestrial mammalian diseases and has led to the development of the ADIAVET™ - CEMO Real Time PCR.

Animal Health Law (AHL) UE 2016/429
Commission Implementing Regulation (UE) 2018/1882

« The new PCR reference
for Contagious Equine Metritis
diagnostic »

ADVANTAGES FOR CME PCR DETECTION



Quick Extraction from "normal" genital swab (without charcoal friends)



Amplification within 1 H 40 only with ADIAVET™ CEMO *Taylorella* real time



Quickest method than culture and more easy to run than Immuno-Fluorescence



Easy to combine from a same extraction to look for *Klebsiella pneumoniae* & *Pseudomonas aeruginosa* in the same PCR Run with Kit ADIAVET™ CEMO KLEB/PSEUDO REAL TIME (reference : ADI511)

« Fast and efficient RT PCR
protocol in compliance with AHL »

CHARACTERSTICS FOR ADIAVET™ CEMO TAYLORELLA REAL TIME

Triplex PCR kit ready to use :

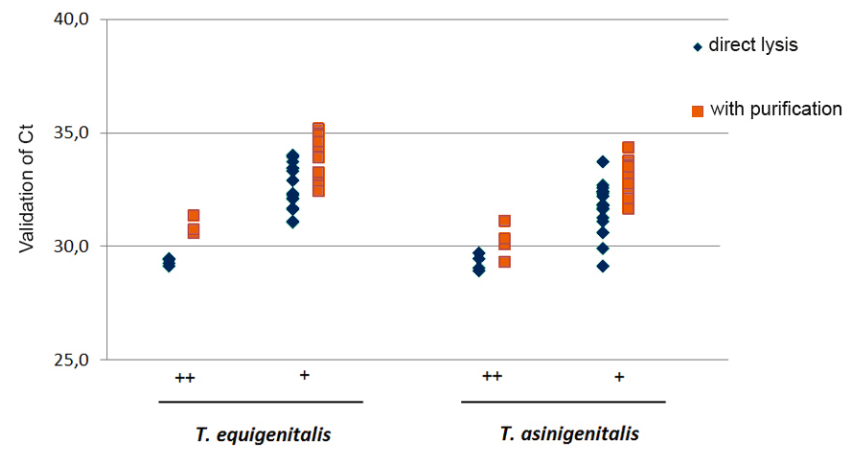
- Taylorella equigenitalis (FAM) Taylorella asinigenitalis (CY5)
- Amplification Internal Positiv Control (HEX)
- Storage 18 month < -15 ° C

High specificty and sensibility for Taylorella equigenitalis detection :

- Low PCR Detection Limit :
 - DoL_{PCR} < 20 GE/ PCR (GE = genome equivalent)
 - DoL_{method} 750 GE/ml
- Validated with direct lysis extraction protocol as well as usual extraction protocols
- Samples: genital swab (stable for 7 days at room temperature and possibility of using swabs without charcoal friends), semen, bacterial culture

VALIDATION OF THE KIT ON GENITAL SWABS

Negative genital swabs doped with *T. equigenitalis* or *T. asinigenitalis* strains.
Blind assesments at Bio-X Diagnostics and Labéo Frank Duncombe



Interpretation

- 100% of positives detected
- No false positives
- Direct lysis and purification methods give equivalent results
- Good reproductibility and repeatability (CV < 3%)



PERFORMANCE



Inclusiveness 100%
(more than 20 strains / targets tested)



Exclusiveness 100 %
(more than 100 strains tested)



DoL_{PCR} ≤ 20 EG/PCR
(EG : équivalent génome)

TO PLACE AN ORDER :

Code	Description	Number of reactions
ADI501-100	ADIAVET™ - CEMO Taylorella real time	100 R



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