

Timoney's CEM Agar with 10% Horse Blood

For Veterinary and Research Use Only



INTENDED USE

Timoney's CEM Agar is the improved formulation for selective culture based isolation and identification of *Taylorella equigenitalis*, the causative agent of Contagious Equine Metritis (CEM) (1).

DESCRIPTION AND PRINCIPLE OF USE

CEM is an inflammation of the endometrium of mares caused by *T. equigenitalis*, which usually results in temporary infertility. It is a non-systemic infection, the effects of which are restricted to the reproductive tract of the mare. Timoney's CEM Agar is suitable for the direct plating of fresh swabs or properly controlled samples transported in Amie's media or other applicable transport media. Timoney's CEM Agar is an improved formulation with selective antibiotics. For a complimentary, non-selective medium, use our Chocolate Eugon Agar with 10% Horse Blood.

STORAGE

Upon receipt, store Timoney's CEM Agar under refrigeration (2-8°C). Medium can be kept for one day at ambient temperature. Avoid freezing or prolonged storage at temperatures above 40°C. Petri's should be received and stored upside down to minimize condensation on the surface of the agar. Do not open until ready to use. Do not use if the medium shows signs of deterioration or contamination.

INOCULATION PROCEDURE FOR PETRI DISH

Allow the petri to warm to room temperature. Lift the inverted petri off the lid. Streak the sample onto the agar surface. Immediately label the petri with patient and sample information and date.

CULTURE AND RESULTS

Incubate inverted at 37°C for 72 hours (up to 14 days) in a 5-10% CO₂ atmosphere controlled incubator. 5-10% CO₂ can also be achieved using the candle jar method. Colonies of *T. equigenitalis* are small (2-3 mm), smooth with complete edges, glossy and yellowish grey (2, 3).

LIMITATIONS/PRECAUTIONS

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Plates should be examined for contaminants after the first 24 hours of incubation. Laboratories should be aware that certain countries and/or states may require the prolonged incubation periods or specific confirmation techniques as standard procedures and should therefore ascertain the particular local or regional requirements for CEM testing and reporting and/or indicate the specific isolation and testing methods used for their cultural findings. Definite confirmation of *T. equigenitalis* may require a range of staining, biochemical testing, antibody agglutination or immuno-fluorescent testing.

Once the medium has been inoculated, re-open only in a biological safety cabinet. Because of the potential for containing infectious materials, used media must be destroyed by autoclaving at 121°C for 20 minutes.

REAGENTS

Timoney's CEM medium contains agar, peptone nutrients, horse blood, and antimicrobial selective compounds (i.e., Amphotericin B, Clindamycin, Trimethoprim).

QUALITY CONTROL

All Biomed product lots are performance verified with ATCC® microbe strains (Table 1). Product performance is also verified periodically throughout the marked shelf life of each lot.

pH verified @ 7.0 +/- 0.1

Table 1. Organisms used for quality control testing

| Organism | ATCC® | Colony Characteristic |
|-------------------------|-------|--|
| <i>T. equigenitalis</i> | 35865 | Small, smooth, yellowish grey, cytochrome-oxidase positive |
| <i>E. coli</i> | 25922 | Inhibited, cytochrome-oxidase negative |
| <i>S. xyloso</i> | 29971 | Inhibited, cytochrome-oxidase negative |

| SYMBOL KEY | | | |
|------------|------------------------------------|--------|---|
| Symbol | Used For | Symbol | Used For |
| | Batch code | | Temperature limitation |
| | Date of manufacture | | Catalog number |
| | Use by YYYY-MM-DD or YYYY-MM | | Caution, consult accompanying documents |
| | Manufacturer | | Authorized representative in the European Community |
| | In vitro diagnostic medical device | | in European community |

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ATCC® is a registered trademark of the American Type Culture Collection

REFERENCES:

- (1) Timoney, PJ, SJ Shin and RH Jacobson. (1982) Improved Selective Medium for Isolation of the Contagious Equine Metritis Organism. *Vet. Rec.*; 111:107-108.
- (2) World Organization for Animal Health (OIE). (2008) *Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Terrestrial Manual)*.
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- (3) USDA Animal and Plant Health Inspection Service (APHIS), Veterinary Services Factsheet. (2009) Contagious Equine Metritis.
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