

C.E.M.O. Agar

DM470

Intended Use

A medium for the cultivation of *Taylorella equigenitalis*, the contagious equine metritis organism (C.E.M.O.).

Contents

See pack label.

Formulation*

Material:	Concentration in medium:
Soy Peptone	5.0 g/litre
Enzymic casein	15.0 g/litre
Sodium chloride	5.0 g/litre
L-cystine	0.3 g/litre
Sodium sulphite	0.2 g/litre
Agar	12.0 g/litre
Final pH: 7.3 ± 0.2	

Storage and shelf life

All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

Precautions

For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST® website).

Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure

1. Refer to pack label for quantities and volumes required. Prepare two bottles of MAST® C.E.M.O Agar (DM470D) by suspending the powder in distilled or deionised water. For sachet packs, dissolve the entire contents of the sachet in the volume shown on the label.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Cool to 50 to 55°C and hold at this temperature in a water bath. Add 5 to 7% sterile horse blood and mix thoroughly.
4. Hold at 80°C, mixing occasionally until the medium becomes a chocolate brown colour.
5. Allow the medium to cool to 50 to 55°C and hold at this temperature in a water bath.

6. To the first bottle add C.E.M.O. 1 MAST® SELECTATAB (MS31) as specified. To the second bottle add C.E.M.O. 2 MAST® SELECTATAB (MS32) as specified (Streptomycin free medium).
7. Alternatively a single selective and streptomycin free medium can be prepared using C.E.M.O. MAST® SELECTATAB (MS60).
8. Mix well, pour deep culture plates (approx. 25ml per plate) and allow to set.
9. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
10. Inoculate plates by surface plating transport swabs of suitable specimens, streaking out for single colonies.
11. Incubate in a humid atmosphere containing 5 to 10% CO₂ for 48 to 72 hours at 35 to 37°C.

Interpretation of results

After incubation record growth of organisms. *Taylorella equigenitalis* appear as small greyish colonies. Certain strains of *Taylorella equigenitalis* are susceptible to streptomycin and will only grow on a streptomycin free medium.

Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
<i>Taylorella equigenitalis</i> [®] NCTC 11225 (Streptomycin sensitive)	Growth (MS31: No growth)
<i>Taylorella equigenitalis</i> ATCC [®] 35865 (Streptomycin resistant)	Growth
<i>Candida albicans</i> ATCC [®] 90028	No growth
<i>Escherichia coli</i> ATCC [®] 25922	No growth (MS32: Growth)

References

Bibliography available on request.