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Clostridioides difficile MAST® SELECTAVIAL

SV23 Series

Intended Use
For the selective isolation of *Clostridioides difficile*.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents
10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
D-cycloserine	250mg/L
Cefoxitin	8mg/L
Lysozyme	5mg/L

Storage and shelf life
Store unopened at 2 to 8°C until expiry date shown on pack label. Once reconstituted use immediately.

Precautions
For *in vitro* diagnostic use only. Observe approved biohazard 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.

Materials required but not provided
Standard microbiological supplies and equipment such as loops, MAST® culture media, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure
1. Sterilise the appropriate volume of MAST® CCEY *Clostridioides difficile* Medium (DM373D), cool to 45 to 50°C and hold at this temperature.
2. Reconstitute the contents of one vial using the diluent specified on the pack label. The best method is to aseptically add the diluent using a sterile needle and syringe. Draw the diluent into the syringe and after removing the plastic cap, inject through the rubber stopper of the vial. The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.
3. Add the antibiotic supplement to the volume of medium specified on the pack label and discard the needle into an approved container.
4. Mix gently but thoroughly to evenly distribute the selective agents.
5. Add 1% v/v lysed blood and 40 ml/L of MAST® REDIPREP egg yolk emulsion (DM096S) and mix well. Pour culture plates (15 to 20 mL per plate) and allow to set.
6. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
7. Inoculate dry plates with material from faecal samples, spreading part of the original inoculum to achieve isolated colonies. *Clostridioides difficile* is very sensitive to oxygen, and plates should be incubated at 37°C for 24 to 48 hours in an anaerobic environment.

Interpretation of results
Colonies of *Clostridioides difficile* will grow to 1 to 3 mm in diameter after 48 hours incubation, appearing white/grey in colour *Clostridioides difficile* can be distinguished from other organisms that occasionally grow on the medium by morphology and phenolic odour.

Quality control
Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
C. difficile ATCC® 43593	Growth
C. perfringens ATCC® 13124	No growth
Enterococcus faecalis ATCC® 29212	No growth
Echerichia coli ATCC® 25922	No growth

References
Bibliography available on request.

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*Formulation may change to meet performance criteria