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Pseudomonas (CFC) MAST® SELECTAVIAL

SV203 Series

Intended use
For the preparation of Modified CFC (Cephalothin, Fusidic acid, Cetrimide) medium for the selective isolation of *Pseudomonas* spp. from food and environmental specimens.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents
10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
Cephalothin	50 mg/L
Fusidic acid	10 mg/L
Cetrimide	10 mg/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® Pseudomonas Agar (Kings A) (DM482D) or Pseudomonas Agar (Kings B) (DM484D), cool to 50 to 55°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 The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.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. Pour culture plates (15 to 20 mL per plate) and allow to set.
5. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
6. Prepare a 10^{-1} food homogenate of specimen using either a stomacher or blender by homogenising 25 g or 25 mL of sample in 225 mL of prepared diluent. The diluent should be at room temperature before the specimen is added.
7. Using the 10^{-1} homogenate and a suitable range of decimal dilutions inoculate the surface of an agar plate by a suitable method for enumeration e.g. spiral plating.
8. Incubate at 25 to 30°C for 48 hours. Count the colonies according to the method used and calculate the number of colony forming units (cfu) per gram or millilitre of original test sample.
9. This selective medium is also suitable for direct inoculation.

Interpretation of results
Any growth on this medium indicates the presence of *Pseudomonas* spp. Pseudomonas strains can be identified by the visible pyocyanin and fluorescein reactions obtained when King's A and B are used together.

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
Proteus mirabilis ATCC® 43071	No growth
Pseudomonas aeruginosa ATCC® 27853	Growth
Pseudomonas fluorescens ATCC® 49838	Growth
Staphylococcus aureus ATCC® 25923	No growth

References
Bibliography available on request.

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