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Burkholderia cepacia MAST® SELECTAVIAL

SV22 Series

Intended Use
For the selective isolation of *Burkholderia cepacia*.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents
10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
Ticarcillin	100mg/L
Polymyxin B	300,000 units/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® Burkholderia cepacia medium (DM253D), 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 The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.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. Spread inoculate the surface of a dried plate with 0.1 mL of liquefied sputum or other respiratory secretions.
7. For quantitative investigations, inoculate additional plates with prepared dilutions.
8. Plates should be incubated and examined after 24 and 48 hours at 37°C and then for a further 5 days at room temperature before being discarded.

Interpretation of results
Colonies of *B. cepacia* will grow up to 1 to 2 mm in diameter, the medium often turning pink to purple especially in areas of heavy growth. Occasional growth by some strains of *Candida* spp., *Stenotrophomonas maltophilia, Comomonas acidovorans,* multi-resistant *Pseudomonas aeruginosa* and *Ps. putida* may occur on the medium, but generally organisms other than *B. cepacia* will be strongly inhibited.

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
Staphylococcus aureus ATCC® 25923	No growth
Proteus mirabilis ATCC® 43071	No growth
Pseudomonas aeruginosa ATCC® 27853	No growth
Candida krusei ATCC® 14243	No growth
Enterococcus faecalis ATCC® 29212	No growth
Burkholderia cepacia ATCC® 25416	Growth

References
Bibliography available on request.

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