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Burkholderia cepacia Medium

DM253

Intended Use
A basal medium for the selective isolation of *Burkholderia cepacia*.

Contents
See pack label.

Formulation*

Material:	Concentration in medium:
Peptone mixture	8.0 g/litre
Sodium pyruvate	5.0 g/litre
Magnesium sulphate	0.2 g/litre
Ammonium sulphate	1.0 g/litre
Ferrous ammonium sulphate	0.01 g/litre
Potassium di-hydrogen phosphate	4.35 g/litre
Di sodium hydrogen phosphate	1.42 g/litre
Bile salts	0.5 g/litre
Crystal violet	0.001 g/litre
Phenol red	0.02 g/litre
Agar	12.0 g/litre
Final pH: 6.2 ± 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 MAST® Burkholderia cepacia Medium (DM253D) 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.
4. The medium should be made selective by the use of Burkholderia cepacia MAST® SELECTATAB (MS22) or Burkholderia cepacia MAST® SELECTAVIAL (SV22).
5. Pour culture plates (15 to 20ml 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 plates by surface plating respiratory secretions such as sputa, pharyngeal swabs or bronchial washings and streak out for single colonies. Quantitative investigations can be made by inoculating additional plates with prepared dilutions of the specimen.
8. Incubate plates aerobically for 48 hours at 35 to 37°C and then for a further 5 days at room temperature before discarding.

Interpretation of results
After incubation record growth of organisms. Colonies of *B. cepacia* will grow up to 1 to 2mm in diameter, the medium turning pink to purple especially in areas of heavy growth.

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
Burkholderia cepacia ATCC® 25416	Growth,
Pseudomonas aeruginosa ATCC® 27853	No growth

Limitations of use
Organisms other than *B. cepacia* are strongly inhibited, occasionally growth by some strains of *Candida* spp., *Stenotrophomonas maltophilia*, *Comomonas acidovorans*, multi-resistant *Pseudomonas aeruginosa* and *Ps. putida* may occur.

References
Bibliography available on request.

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*Formulation may change to meet performance criteria