Mast Group Ltd.
Mast House, Derby Road,
Bootle, Merseyside, L20 1EA
United Kingdom
Tel: + 44 (0) 151 472 1444
Fax: + 44 (0) 151 944 1332
email: sales@mast-group.com
Web: www.mast-group.com

EC REP **Mast Diagnostica GmbH**
Feldstrasse 20
DE-23858 Reinfeld
Germany
Tel: + 49 (0) 4533 2007 0
Fax: + 49 (0) 4533 2007 68
email: mast@mast-diagnostica.de
Web: www.mast-group.com

Mast Diagnostic
12 rue Jean-Jacques Mention
CS91106, 80011 Amiens, CEDEX 1
France
Tél: + 33 (0) 3 22 80 80 67
Fax: + 33 (0) 3 22 80 99 22
email: info@mast-diagnostic.fr
Web: www.mast-group.com

Burkholderia cepacia MAST® SELECTATAB

MS22 Series

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

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents
25 (small) or 10 (large) MAST® SELECTATAB. See pack label.

Formulation

Material:	Concentration in medium:
Ticarcillin	100 mg/L
Polymyxin B	300,000 units/L

Storage and shelf life
Store unopened at 2 to 8°C until the expiry date shown on the pack label. Once opened, store MAST® SELECTATAB in capped, original packaging at 2 to 8°C until the expiry date shown on the pack label.

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. Label Petri dishes using self-adhesive labels provided.
2. Sterilise appropriate volume of MAST® Burkholderia cepacia medium (DM253D), cool to 50 to 55°C and hold at this temperature.
3. Using sterile forceps add one MAST® SELECTATAB to the volume of medium specified on the pack label and label the bottle. Allow to stand for several minutes at 50 to 55°C until the MAST® SELECTATAB has broken up.
4. After the MAST® SELECTATAB has broken up, swirl the bottle 3 or 4 times and invert it to complete dispersal. An alternative method is to first dissolve the MAST® SELECTATAB in 3 to 5 mL of recommended diluent and add this to the appropriate volume of medium.
5. 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. Spread inoculate the surface of a dried plate with 0.1 mL of liquefied sputum or other respiratory secretions.
8. For quantitative investigations, inoculate additional plates with prepared dilutions.
9. 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.

IFU019 GB 02/20 V8