



Mast Group Ltd.
Mast House, Derby Road, Bootle
Liverpool, 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

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



Peptone Agar

DM184

Intended Use

For use in the presumptive identification of *Haemophilus* spp.

Contents

See pack label.

Formulation*

Material:	Concentration in medium:
Bacteriological peptone	10.0 g/litre
Sodium chloride	5.0 g/litre
Agar	14.0 g/litre
Final pH: 7.3 ± 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® Peptone Agar (DM184D) 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. Pour culture plates (15 to 20ml per plate) and allow to set.
4. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
5. Using a sterile swab evenly spread a suspension of the test strain of *Haemophilus* spp., approximately equivalent in density to McFarland 0.5 standard, over the surface of the plate.

6. Apply MASTDISCS® ID X factor (D43/D43C), V factor (D44/D44C) and X + V factor (D45/D45C) discs or MASTRING-S® MIRROR XV MASTRING (MID/XV) to the medium. If using MASTRING-S® MID/XV two test strains of *Haemophilus* spp. can be tested simultaneously.
7. Incubate the plates aerobically for 18 to 24 hours at 35 to 37°C.

Interpretation of results

After incubation record growth of organisms. A clearly defined zone of growth, which may need viewing under magnification, around one or more discs or MASTRING-S® tips identifies the species of *Haemophilus* as shown in the table.

Species	Growth around disc containing:		
	X Factor	V Factor	XV Factor
<i>H.influenzae</i>	-	-	+
<i>H.aegyptius</i>	-	-	+
<i>H.parainfluenzae</i>	-	+	+
<i>H.haemolyticus</i>	-	-	+
<i>H.parahaemolyticus</i>	-	+	+
<i>H.ducreyi</i>	+	-	+

NB. MAST Peptone Agar is free of X and V factors. *Haemophilus* spp. will not grow on the medium unless appropriate factors are supplied.

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
<i>Haemophilus influenzae</i> ATCC® 49766	Growth and correct X & V response
<i>Haemophilus parainfluenzae</i> ATCC® 7901	Growth and correct X & V response

References

Bibliography available on request.