

MAST® Culture Media and Supplements

Technical Information Sheet

Product Code DM 184



Peptone Agar

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

1. Description

The isolation of *Haemophilus spp.* requires enriched media such as 'chocolate' agars which provide two factors required for growth. These two factors termed X and V were later discovered to be haemin and Nicotinamide Adenine Dinucleotide (NAD) respectively. The requirement for X factor, V factor, or both, varies between the species and can be used as a means of presumptive identification. Tests for differentiating *Haem-*

ophilus spp. on this basis, have mainly involved the use of paper discs impregnated with either or both of the growth factors. To correctly perform such tests a medium free of these factors is required. MAST Peptone Agar is a simple medium containing a carefully chosen peptone free of these factors, but which will support good growth of *Haemophilus spp.* when these are supplied.

2. Technical Formula*

Formula	grams per litre
Bacteriological peptone	10.0
Sodium chloride	5.0
Agar	14.0
pH approx.7.3.	

3. Directions

1. Suspend by swirling 29g of powder in 1 litre or the contents of the sachet in the stated volume of distilled or deionised water.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Mix well before pouring.

4. In Use

The organism under test is subcultured onto MAST Peptone Agar and MAST X factor (D43 or D43C), V factor (D44 or D44C) and X + V factor (D45 or D45C) discs are applied to the surface. After overnight incubation, a

clearly defined zone of growth around a particular disc indicates a requirement for that growth factor. (For further details of technique see the appropriate technical leaflet).

Test Species	Factor X	Factor V	Factor X+V
<i>H.influenzae</i>	-	-	+
<i>H.parainfluenzae</i>	-	+	+
<i>H.ducreyi</i>	+	-	+

+ = growth around the discs.

- = no growth around the discs.



 **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@mastgrp.com
Web: www.mastgrp.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.mastgrp.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.mastgrp.com



MAST® is a registered Trademark

*Formulation may be modified to meet performance criteria

SJW|10/17|V.2