



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



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



C.L.E.D. Medium with Andrades Indicator

DM111

Intended Use

A modified C.L.E.D. medium for the investigation of urinary infections.

Contents

See pack label.

Formulation*

Material:	Concentration in medium:
Peptone	4.0g/litre
Beef extract	3.0g/litre
Casein hydrolysate - enzymic	4.0g/litre
Lactose	10.0g/litre
L-Cysteine	0.128g/litre
Bromothymol blue	0.04g/litre
Andrades indicator	0.1g/litre
Agar	14.0g/litre
Final pH: 7.4 ± 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. Suspend by swirling 35.2g of powder in 1 litre of distilled or deionised water.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Mix thoroughly, 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. Inoculate plates with early-morning urine (EMU), mid-stream urine (MSU) or catheter urine (CSU) by surface plating, streaking out for single colonies. Alternatively colony counts can be obtained by spreading evenly over the entire surface. MAST® C.L.E.D. medium with Andrades Indicator (DM111D) can be used in conjunction with MAST® BACTERURITEST Strips (BTR1) for the screening of urine cultures.
6. Incubate plates aerobically for 18 to 24 hours at 35 to 37°C

Interpretation of results

After incubation record growth of organisms. Typical characteristics to note include colony size, morphology, pigmentation and effect on surrounding medium. Lactose is included as a carbon source, therefore lactose and non-lactose fermentors can be easily differentiated by a colour change of the medium - organisms capable of fermenting lactose will lower the pH and turn the medium pink.

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>Escherichia coli</i> ATCC® 25922	Growth (Pink)
<i>Proteus mirabilis</i> ATCC® 29906	Growth (Blue / green)
<i>Staphylococcus aureus</i> ATCC® 25923	Growth (Pink)

References

Bibliography available on request.