



**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



## MacConkey Agar No.2

### DM142

#### Intended Use

A medium for the detection of enterococci in the presence of non-lactose fermenters and coliforms in food, sewage and water.

#### Contents

See pack label.

#### Formulation\*

Material:	Concentration in medium:
Peptone mixture	14.6g/litre
Lactose	10.0g/litre
Sodium chloride	5.0g/litre
Bile salts No.2	0.00425g/litre
Crystal violet	0.001g/litre
Neutral red	0.03g/litre
Agar	14.0g/litre
Final pH: 7.2 ± 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® MacConkey Agar No.2 (DM142D) 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. Mix well, 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 directly with faeces, food, sewage or water samples. Streak out for single colonies.

6. Incubate plates aerobically for 18 to 48 hours at 35 to 37°C. Examine at 18 hours when results are most clear.

#### Interpretation of results

After incubation record growth of organisms. Typical characteristics to note include colony size, morphology, pigmentation and effect on surrounding medium.

#### 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	Pink colonies
<i>Enterococcus faecalis</i> ATCC® 29212	Small red colonies with pale periphery
<i>Staphylococcus aureus</i> ATCC® 25923	No growth
<i>Salmonella typhimurium</i> ATCC® 14028	Colourless or pale yellow colonies

#### References

Bibliography available on request.