

MAST® ID Citrate Agar

IDM23

Intended use

An agar medium for performance of the citrate utilisation test.

Contents

See pack label.

Formulation*

Material:	Concentration in medium:
Magnesium sulphate	0.2 g/litre
Ammonium di hydrogen phosphate	0.2 g/litre
Tri sodium citrate	2.0 g/litre
Sodium ammonium Phosphate	0.8 g/litre
Sodium Chloride	5.0 g/litre
Bromothymol blue	0.1 g/litre
Agar	25.0 g/litre
Final pH: 6.8 ± 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® ID Citrate Agar (IDM23/A) 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. Sterilise by autoclaving at 121°C (15 p.s.i.) for 15 minutes.
3. Mix well and pour culture plates (15 to 20ml per plate) into Petri dishes which have been labelled using the self-adhesive labels provided. Self adhesive labels are provided in each box of preweighed sachets.
4. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week.

5. Prepare a suspension of each organism equivalent in density to a 0.5 McFarland standard. Inoculate the surface of a well-dried plate using a replicating device, e.g. the SCANURIDOT Multipoint Inoculator, to deliver each inoculum onto the agar surface.
6. Multipoint Inoculator, to deliver each inoculum onto the agar surface.
7. Allow the inoculum drops to dry before disturbing and incubate plates aerobically for 18 to 24 hours at 35 to 37°C.

Interpretation of results

After incubation record growth and colour development in the medium. A positive result indicating utilisation of citrate is shown by a colour change to blue. A negative result is no change from the original green.

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	
<i>Escherichia coli</i> ATCC® 25922	Negative
<i>Salmonella typhimurium</i> ATCC® 14028	Positive
<i>Enterobacter aerogenes</i> ATCC® 13048	Positive

References

Bibliography available on request.