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Brain Heart Infusion Broth

DM106

Intended Use

A versatile liquid medium for the culture of fastidious organisms.

Contents

See pack label.

Formulation*

Material:	Concentration in medium:
Special peptone mixture	12.0g/litre
Brain heart infusion solids	3.5g/litre
Pancreatic digest of casein	10.0g/litre
Yeast extract	2.0g/litre
Dextrose	2.0g/litre
Sodium chloride	5.0g/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. Suspend by swirling 34.5g of powder in 1 litre of distilled or deionised water.
2. Enhanced growth of both aerobic and anaerobic organisms can be achieved by the addition of 0.1% w/v of agar (MAST® Agar A, RM10), which produces an oxygen gradient in the medium.
3. Mix well and distribute the solution into suitable final containers (e.g. tubes or bottles).
4. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
5. Cool to ambient temperature.
6. If required the medium can be made selective by the addition of various MAST® selective supplements.
7. Prepared medium may be used immediately or stored at 2 to 8°C for up to 1 week.

8. Inoculate and incubate for 18 to 24 hours at 35 to 37°C (or alternative temperatures according to the methodology followed).

Interpretation of results

After incubation record growth of organisms, indicated by turbidity in the 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	Growth
<i>Enterococcus faecalis</i> ATCC® 29212	Growth
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Growth
<i>Staphylococcus aureus</i> ATCC® 25923	Growth

References

Bibliography available on request.