

Technical Data

Liver Meat Agar M1001

Liver Meat Agar is used for cultivation of fastidious anaerobic microorganisms.

Composition**

Ingredients	Gms / Litre
Meat liver infusion powder	20.000
Dextrose	0.750
Starch	0.750
Sodium sulphite	1.200
Ferric ammonium citrate	0.500
Agar	11.000
Final pH (at 25°C)	7.6±0.2

^{**}Formula adjusted, standardized to suit performance parameters

Directions

Suspend 34.2 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Anaerobic bacteria live in an oxygen-free environment. Some anaerobic bacteria actually die if oxygen is present, while others fail to grow and multiply (1). Meat liver base provides adequate degree of anaerobiosis and is also rich source of growth nutrients, which enables even the strict and fastidious anaerobes to grow well.

Some anaerobes (e.g. certain *Clostridium* species) reduce the sulphite present in the medium to hydrogen sulphide (H2S) which is indicated by the blackening of colonies due to presence of ferric ammonium citrate. Inoculation can be performed by the pour plate method or by surface smearing

Quality Control

Appearance

Light yellow to light brown homogeneous free flowing powder

Gelling

Firm, comparable with 1.1% Agar gel

Colour and Clarity of prepared medium

Brown coloured opalascent gel with suspended particles forms in Petri plates.

Reaction

Reaction of 3.42% w/v aqueous solution at 25°C. pH: 7.6±0.2

pН

7.40-7.80

Cultural Response

M1001: Cultural characteristics observed under anaerobic condition, after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery	H2S
Cultural Response				
Clostridium perfringens	50-100	luxuriant	>=50%	positive
ATCC 12924				
Clostridium tetani ATCC 10779	50-100	luxuriant	>=50%	positive
Escherichia coli ATCC 25922	50-100	luxuriant	>=50%	negative
Proteus mirabilis ATCC 25933	50-100	luxuriant	>=50%	negative or weakly positive

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Clostridium botulinum ATCC 25763	50-100	luxuriant	>=50%	positive
Bacteroides vulgatus ATCC 8482	50-100	good-luxuriant	>=50%	negative

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1.Alcamo E. I., 2001, Fundamentals of Microbiology, 6th Ed., Jones and Bartlett Publishers

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