



## Liver Meat Glucose Cysteine Broth

M1322

Liver Meat Glucose Cysteine Broth is recommended for cultivation of fastidious anaerobic organisms.

### Composition\*\*

Ingredients	Gms / Litre
Liver meat base	29.500
Glucose	2.000
L-Cysteine hydrochloride	0.500
Final pH ( at 25°C)	7.4±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 32 grams in 1000 ml distilled water. Heat if necessary o dissolve the medium completely. Dispense as desired. 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).

Liver Meat Glucose Cysteine Broth is recommended for the cultivation of fastidious anaerobic organisms. The medium contains liver meat which is a rich source of vitamins, the haem group and other nutrients that support the growth of strict and nutritionally fastidious anaerobes. Besides, it also provides sufficient degree of anaerobiosis in the medium. L-Cysteine hydrochloride has a dual function in that it acts as a nutrient and the sulphhydryl group present in it helps to create anaerobic conditions. Glucose provides source of energy.

### Quality Control

#### Appearance

Yellow to brownish yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Amber coloured clear to slightly opalescent solution

#### Reaction

Reaction of 3.2% w/v aqueous solution at 25°C. pH : 7.4±0.2

#### pH

7.20-7.60

#### Cultural Response

Cultural characteristics observed after in an anaerobic environment after an incubation at 35-37°C for 24-48 hours.

#### Organism

#### Growth

#### Cultural Response

*Bacteroides vulgatus* ATCC 8482 good-luxuriant

*Clostridium botulinum* ATCC 25763 luxuriant

*Clostridium perfringens* ATCC 12924 luxuriant

### Storage and Shelf Life

Store below 30°C in tightly closed container and 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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