



FAGI Broth

M1197

For detection of *Escherichia coli* in water samples

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	3.000
Magnesium sulphate	0.200
Manganese sulphate	0.050
Final pH (at 25°C)	6.9±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 3.25 grams in 1000ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Coliform organisms in water samples pose a major concern to the drinking water supply, the indicator organism being *E.coli*. Many media such as MacConkey broth have been identified for detection of MPN. FAGI Broth has used in the detection of thermotolerant *E.coli* (1). This medium is used for the detection of *E.coli* in water samples.

Peptic digest of animal tissue supplies nutrients and growth factors to the microorganisms.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear solution.

Reaction

Reaction of 0.325% w/v aqueous solution at 25°C. pH : 6.9±0.2

pH

6.70-7.10

Cultural Response

M1197: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism

Growth

Cultural Response

Escherichia coli ATCC 25922 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.S.Sharmili and P.Ramasami. Occurance and antibiotic resistance of thermophilic bacteria from Coramandal coast, Bay of Bengal, Tamilnadu, Bengal. Dept. of Biotechnology, Tamilnadu.

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