



## FAGI Agar

M1196

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
Agar	20.000
Final pH ( at 25°C)	6.9±0.2

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

### Directions

Suspend 23.25 grams in 1000ml distilled water. Heat to boiling to dissolve the medium completely. 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 Agar has used in the detection of thermotolerant *E.coli* and antibiotic resistance study. (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

#### Gelling

Firm, comparable with 2.0% agar gel.

#### Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates.

#### Reaction

Reaction of 2.32% w/v aqueous solution at 25°C. pH : 6.9±0.2

#### pH

6.70-7.10

#### Cultural Response

M1196: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Growth
<i>Escherichia coli</i> 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. Occurrence and antibiotic resistance of thermophilic bacteria from Coramandal coast, Bay of Bengal, Tamilnadu, Bengal. Dept. of Biotechnology, Tamilnadu.

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