FAGI Broth

For detection of *Escherichia coli* in water samples

**Composition**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Gms / Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peptic digest of animal tissue</td>
<td>3.000</td>
</tr>
<tr>
<td>Magnesium sulphate</td>
<td>0.200</td>
</tr>
<tr>
<td>Manganese sulphate</td>
<td>0.050</td>
</tr>
<tr>
<td>Final pH (at 25°C)</td>
<td>6.9±0.2</td>
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</tbody>
</table>

**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**

*Escherichia coli* ATCC 25922

**Growth**

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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